AR TARGET SHEET

The following document was too large to scan as one unit, therefore, it has been broken down into sections.

EDMC#:

0059434

SECTION:

3 OF 3

DOCUMENT #:

DOE/RL-2003-20

TITLE:

CY 2002 Hanford Site Mixed

Waste LDR Report

1.0 WASTE STREAM IDENTIFICATION

1.1	Treatability	Group	Name:
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MLLW-05 - Elemental Lead

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

This treatability group is for waste that is determined to meet the "Radioactive Lead Solids Subcategory" as described in 40 CFR 268.40. Applicable WSRds for this treatability group are: EPB, 800, 801, 803. This treatability group consists of many different forms of radioactive lead solids including bricks, sheets, shot-filled blankets, lead-lined debris items where the lead comprises more than 50% of the waste matrix. The waste was and is generated by many onsite generating organizations and offsite generators.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters):

429.208

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specfic data sheets for this treatability group].

Year	m³
2003	2.522
2004	23.747
2005	22.451
2006	17.435
2007	16.021
Total	82.176

3.1

and/or	kg

3.0 WASTE STREAM CHARACTERIZATION

Radiol	ogical Characteristics				
3.1.1	Mixed waste type:	High-level	Transuranic	X	Low-level
3.1.2	Handling (as package con	tents would need to be han	dled during treatment):		
		Remote-handled			
3.1.3	•	l characteristics (e.g., more 1 by radiation, confidence l	specific information on conte	nt,	
	characteristics, the radiolog there is high confidence the Contact-Handled (i.e., less	it the waste is MLLW. The than or equal to 200mR/hr of	cted to vary greatly. However, waste as packaged is considere in outside package surface);		
	however, the dose rate of si	ome waste inside the nackag	e may exceed 200mR/hr		

3.2	Physic	cal Form			
	3.2.1	Physical form of the v	vaste:		
		⊠ Solid	☐ Liquid	Semi-solid	Debris
		Other (Describe in	n comments.)		
	3.2.2	Comments on physica	il form:		
		level that the physical is received prior to the W For this older waste, the treatment and disposal.	matrix characteristics n /SS being implemented the matrix characterization. If during the verificate the MLLW-05 waste	System (WSS) has a high coneet the waste stream descript has a low to medium confide on will be verified prior to serion process, it is determined the stream description, it will be W-04A or -04B).	ion. Waste nce level. iding it to hat some of
3.3	Regula	ted constituents and was	tewater/non-wastewat	er category	
	3.3.1	Wastewater/non-wast	ewater under RCRA		
		Wastewater	Non-was	tewater Unkno	wn
	3.3.2	Regulated constituent	s table including treat	ment requirements and UHG	Cs, if applicable.

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable	Ignitable Charac.	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D002	Согтоѕіче	Corrosive Charac.	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D004	TC-Arsenic	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D005	TC-Barium	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D006	TC-Cadmium	Cadmium Charac.	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D007	TC-Chromium	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D008	TC-Lead	Rad. Lead Solids	***	***	MACRO (40 CFR 268.40)
D009	TC-Mercury	Low Mercury	<260 mg/kg	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D010	TC-Sclenium	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D011	TC-Silver	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D018	Benzene	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D019	Carbon Tetrachloride	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D022	Chloroform	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D023	o-Cresol	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D028	1,2-Dichloroethane	N/A	••*	4.0 *	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D029	1,1-Dichlorethylene	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D030	2,4-Dinitrotoluene	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D033	Hexachlorobutadiene	N/A	***	本章中	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D035	Methyl Ethyl Ketone	N/A	· 中	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D038	Pyridine	N/A	·本·华··	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D039	Tetrachloroethylene	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D040	Trichloroethylene	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
D043	Vinyl Chloride	N/A	***	4 40 40	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
F001	1,1,1-Trichloroethane	Spent Solvent	***	北市市	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
F002	Methylene Chloride	Spent Solvent	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
F003	Acetone & Hexone	Spent Solvent	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
F004	o-Cresol & p-Cresol	Spent Solvent	***	中中本	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
P012	Arsenic Trioxide	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
U044	Chloroform	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
U203	Safrole	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
U228	Trichloroethylene	N/A	***	***	Alternative Treatment Stds. for Haz. Debris (40 CFR 268.45)
WP01	Persistant, DW	N/A	***	***	None (1)
WP02	Persistent, DW	N/A	***	***	N/A
WSC2	Solid Corrosive Acid	N/A	***	***	Remove Solid Acid Charac.
WT01	Toxic, EHW	N/A	***	***	None (1)
WT02	Toxic, DW	N/A	***	***	N/A

^{*} LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

^{**} If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

IN	e concentration	varies and is	based on process	knowledge and/o	or analytical da	ita.		
	xed extremely hance with RCW			disposed in Wash	ington State in	n DOE facilities i	in	
	dentification not ent standards for	-		lead solids and h	azardous debr	is when using all	ternative	
3.3.3	=		s from Section treatment sta	3.3.2 for which adards.	the waste s	tream already		
	List:					•		
	□ No LD	R treatment	required (e.g. 1	ΓRUM waste de	stined for W	IPP, exclusion,	, etc.)	
•	None (i		tuents/waste n	umbers of this v	vaste stream	still require		
3.3.4	Does this wa	ste stream	contain PCBs	?				
	▼ Yes		□ No	ס		Unknown		
	If no or unk	nown, skip t	Section 3.3.5					
	3.3.4.1	Is waste	stream subject	to TSCA regu	lations for P	CBs?		
		☐ Ye	s	\boxtimes	No		Unknown	
	3.3.4.2	Indicate	the PCB conce	ntration range	•			
		☒ <5	0 ppm		≥ 50 ppm		Unknown	
3.3.5	What is the	confidence	level for the re	gulated constit	uents?			
	Low		⊠ M	edium		High		
3.3.6	Comments of	n regulated	constituents	and wastewater	r/non-wastev	vater category	' :	
	contaminant prior to the V require some If, during the meet the ML	characterist WSS implem characterize verification LW-05 Trea	ics meet the properties in the properties at the process, it is a process.	gh confidence I escribed treatab low to medium ons prior to sen determined that, then it will be 3).	ility group. confidence l ding it to tree some of the	Waste received evel and will atment and disp waste does not	posal.	
			4.0 WAST	E STREAM	TREATMI	ENT		
Is this w	aste stream c	urrently bei	ng treated?					
☐ Yes	3		X No	•				
If yes, p	rovide details:		N/A					

4.1

4.2		Check the appropriate box in egulations, including LDR tre		s for treating this waste stream
	☐ No treatment re	quired (skip to Section 5.0)		
	Treating or plan	to treat on site		
	▼ Treating or plan	to treat off site		
	Treatment option	ons still being assessed		
4.3	Planned treatment i	method, facility, extent of trea	tment capacity avail	able:
	•	•••	•	lation without using a sealed container. reatment contracts, and/or by onsite
4.4	Treatment schedule	information:		
	Treatment is anticipa	ited to be performed as necessa	ry to support the resu	lts of the M-091 TPA dispute resolution.
4.5	Applicable Tri-Part	y Agreement treatment miles	tone numbers (inclu	ling permitting):
	Milestone Number		Due Date	
	N/A		N/A	
4.6	Proposed new Tri-P	arty Agreement treatment mi	ilestones:	-
	See Section 4.4.			
4.7	If treating or planni and/or selecting the	ing to treat on site, was or will treatment method?	waste minimization	be addressed in developing
	☐ Yes	□ No		■ Unknown
	If yes, describe:	When feasible and/or prac- waste to reduce the ultimate		and segregation will be performed on this
4.8		ntability equivalency petitions nt or already in place.	, rulemaking petitio	s, and case-by-case exemptions
	None.			
4.9	Key Assumptions:			
	•	001-F005 listed waste, the ETF nixed waste trenches.	delisting petition mu	st be modified to manage the leachate
		5.0 WAST	E STREAM DISP	OSAL
	After treatment, hor required, etc. as app		posed of (include loc	ations, milestone numbers, variances
	Subject waste ultima	tely will be disposed of in mix	ed waste trenches loc	ated on the Hanford Site.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	222-S Labo	ratory Complex	Waste Stream:	222-S Elemental Lead
	Treata	bilitiy Group Nan	ne:	MLLW-05 - Elemen	tal Lead	
1.2	Applic	able profile numb	er(s) for this v	vaste stream:		
	None.					
1.3	Waste	stream source info	ormation			
	1.3.1	General descrip		aste (e.g., spill clean-up	waste, discarded la	b materials,
			dures, and 219	9-S WHF operations). Le		oratory operations (e.g. hot cell, shot, and manipulators that are
	1.3.2	History of how	and where th	e waste was/is generate	d:	
		cell, analytical h	oods, and 219		ormally the lead is us	ste storage area (DMWSA), hot sed as shielding from radiation
	1.3.3	Source of the re	egulated const	tituents:		
		The source of ha ETF, ERDF, etc		tituents is Hanford gener	rating facilities (e.g.	Tank Farms, K-Basins, PFP,
	1.3.4	Source of the in	formation (e.	g., analytical data, proc	ess knowledge, doc	ument number, etc.)
		Process knowled	ige.			
	1.3.5	Additional note	es:			
		None.				
	2	2.0 WASTE STR	EAM STOP	RAGE, INVENTORY	, AND GENERA	TION INFORMATION
	(NOTE	: For waste in sate	ellite accumula	ation areas and 90-day a	ccumulation areas, s	kip to Section 2.6.)
2.1	Curren	t storage method				
		Container (pad)	\boxtimes	Container (covered)	□ Co	ontainer (retrievably buried)
		Tank		DST	□ ss	T
		Other (explain):				
	2.1.1	How was the wa	aste managed	prior to storage?		
		vas managed per th L-91-27 Revision		ility Dangerous Waste I	Permit Application,	222-S Laboratory Complex
	2.1.2	Timeframe whe	n waste was p	olaced to storage?		
	06/1999	9 - 12/31/2002.				

Storage invento	ry locations:						
Building/Room	Number		Numbe	er of Containers/	Tanks	<u></u>	
Current stared	inventory for this s	treem	<u> </u>				
Total volume (c	•	CI CHIII.	0.000	1			
,	•	01/07		,			
Date of inventor		01/06	2003				
Comments on w	•						
	on the SWITS speci-			•			
Is storage capa	city at this location	potentially	an issue	for this waste	stream?		
☐ Yes		X No					
If yes, what is th	e total estimated sto	rage capaci	ty?	1	N/A		
When is this cap	acity expected to be	reached?		1	N/A		
Bases and assur	nptions used:						
N/A							
Planned storag	e areas for this was	te:					
Current I	ocation	Z CWC				DST	
Other Are	ea(s) (list):						
☐ None							
Estimated gene	ration projection by	v calendar	vear (inc	cludes waste ir	satellite	and 90-day	
accumulation a	-					•	
Year	m³ an	d/or	kg	-			
2003	0.310			1			
2004	0.310			-			
2005	0.310			1			
2006	0.310			1			
Total	1.550			†			
				1			
	ompliance Assessm	ent inform	ation:				
DOE Storage C							
_	ent has been comple	ted.					
_	•	ted.			Date		

IVITIES	one Number			Due l			
M-020	-22			12/31	/1991		
	re ever been any non-p the environment?	permitte	d, una	uthorized	release of this wa	iste stre	eam from this storage
□ Y	'es	X	No				
If yes, s	ummarize releases and	quantitie	s and p	orovide da	te:		
N/A							
Are the	re any plans to submit	request	s for v	ariances o	r other exemptio	ns relat	ed to storage?
□ Y	'es	X	No				
If yes, e	xplain: N/A						
Charac	terization						
2.11.1	Is further characteri	zation n	eeded	about the	waste prior to ac	ceptan	ce for storage?
	Yes		X	No			Unknown at this time
	Milestone Number				Due Date		
	N/A				N/A		7
	T.C						_1
	If yes or unknown, co	ımenı (on cnai	acterizatio	m for storage.		
2.11.2	Is further characteri	zation n			waste prior to ac		
	☐ Yes		X	No			Unknown at this time
	Milestone Number				Due Date		
	N/A				N/A		7
	If yes or unknown, co	mment a	on char	acterizatio	on for treatment.	· · · · · · · · · · · · · · · · · · ·	_
	N/A						
2.11.3	Is further characteri	zation n	eeded	shout the	waste prior to ac	ceptano	ce for disposal?
2.11.0	Yes		×	No	prior to m	-	Unknown at this time
	Milestone Number				Due Date		

Other	key assumptions	related to storag	e, invento	ory, and genera	tion information:
None.					
			3.0 WA	STE MINIMI	ZATION
Has a v	waste minimizatio	on assessment be	en compl	eted for this st	ream?
\boxtimes	Yes		No		
If yes,	provide date asses	sment conducted	:		9/2000
If yes, j	provide document	number or other	identifica	tion:	
Operati	ing and analytical	procedures at 22	2S Labora	ntory.	
If no, p	rovide date assess	ment will be con	npleted, o	r if waste strean	n is no longer generated, then indicate N/A:
stream volume materi 222-S p	(e.g., process cha e through segrega als): personnel minimis	anges to reduce (ition and avoida ze waste through	or elimina nce of cor proper pl	ite LDR waste, nmingling, sub anning during A	methods to reduce stitution of less-toxic AJHA and pre-jobs and optimizing use of lab
	-	-	nnovative	technology that	t will allow them to minimize waste.
			endar ve:	ar 2002 (volum	e or mass)
0.511	7.300	m3	,		,
3.3.2	Projected futu	re waste volume	reductio	ns	
	Year	m ³	and/or	kg	
	2003	0.000			
	2004	0.000			
	2005	0.000			
	2006	0.000			
	2007	0.000			
	Total	0.000			
	Has a v If yes, If yes, Operati If no, p Provid stream volume materi 222-S ; ware. 2 Waste 3.3.1	Has a waste minimization Yes If yes, provide date assess If yes, provide document Operating and analytical If no, provide date assess Provide details of currentstream (e.g., process chave olume through segregal materials): 222-S personnel minimic ware. 222-S Laboratory Waste minimization schama. 7.300 3.3.1 Reduction ach 7.300 3.3.2 Projected future Year 2003 2004 2005 2006 2007	Has a waste minimization assessment be Yes If yes, provide date assessment conducted If yes, provide document number or other Operating and analytical procedures at 22 If no, provide date assessment will be con Provide details of current and proposed stream (e.g., process changes to reduce of the volume through segregation and avoidal materials): 222-S personnel minimize waste through ware. 222-S Laboratory personnel seek in Waste minimization schedule 3.3.1 Reduction achieved during call 7.300 m3 3.3.2 Projected future waste volume Year m³ 2003 0.000 2004 0.000 2005 0.000 2006 0.000 2006 0.000 2007 0.000	Has a waste minimization assessment been complex Yes No If yes, provide date assessment conducted: If yes, provide document number or other identificated operating and analytical procedures at 222S Laborated If no, provide date assessment will be completed, of the provide details of current and proposed methods stream (e.g., process changes to reduce or eliminary volume through segregation and avoidance of commaterials): 222-S personnel minimize waste through proper playmare. 222-S Laboratory personnel seek innovative Waste minimization schedule 3.3.1 Reduction achieved during calendar years of the projected future waste volume reduction and properties of the projected future waste volume reduction and properties of the projected future waste volume reduction and properties of the projected future waste volume reduction and properties of the projected future waste volume reduction and properties of the projected future waste volume reduction and properties of the projected future waste volume reduction and projected	Has a waste minimization assessment been completed for this stream. Yes No If yes, provide date assessment conducted: If yes, provide document number or other identification: Operating and analytical procedures at 222S Laboratory. If no, provide date assessment will be completed, or if waste stream. Provide details of current and proposed methods for minimizing stream (e.g., process changes to reduce or eliminate LDR waste, volume through segregation and avoidance of commingling, sub materials): 222-S personnel minimize waste through proper planning during ware. 222-S Laboratory personnel seek innovative technology that Waste minimization schedule 3.3.1 Reduction achieved during calendar year 2002 (volume 7.300 m3) 3.3.2 Projected future waste volume reductions Year m³ and/or kg 2003 0.000 2004 0.000 2005 0.000 2006 0.000 2006 0.000 2007 0.000

3.3.3 Bases and assumptions used in above estimates:

DOE/RL-2000-79- "Pollution Prevention Accomplishments" document reported waste reduction for CY 2000. The waste reduction volume reported in Section 3.3.1 is a total waste minimization volume for similar waste streams across the 222-S Laboratory; this waste stream may be a portion of what was reported. 222-S has no waste minimization goals for this waste stream; therefore, no projected future waste volume reductions are reported in Section 3.3.2. However, the analytical process generating this waste stream is continuously evaluated for waste minimization opportunities.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

l	Unit/Plant name:		324		Waste Stre	eam:	Elemental Lead
	Treata	bilitiy Group Na	ame:	MLI	.W-05 - Elemental Lead		
2	Applic	able profile nun	nber(s) for th	is waste stı	eam:		
	N/A						
3	Waste	stream source i	ıformation				
	1.3.1	General desc maintenance		e waste (e.g	., spill clean-up waste, discard	ed lab mate	rials,
		Lead blocks,	lead bricks, le	ad blankets	, lead sheets, and lead shot.		
	1.3.2	History of ho	w and where	the waste	was/is generated:		
		Lead items we	ere used for si	hielding or	counter balances.		
	1.3.3	Source of the	regulated co	nstituents:			
		Lead.					
	1.3.4	Source of the	information	(e.g., analy	tical data, process knowledge,	document	number, etc.)
		Process know	ledge.				
	1.3.5	Additional no	etes:				
		None.					
	2	2.0 WASTE ST	REAM ST	ORAGE,	INVENTORY, AND GENE	RATION	INFORMATION
	(NOTE	: For waste in s	atellite accum	nulation are	as and 90-day accumulation are	as, skip to S	Section 2.6.)
	Currer	it storage metho	d				
		Container (pad)		Contai	ner (covered)	Container	(retrievably buried)
		Tank		DST		SST	
		Other (explain):					
	2.1.1	How was the	waste manag	ed prior to	storage?		
1	N/A						
	2.1.2	Timeframe w	hen waste wa	as placed to	storage?		
	N/A						
:	Storage	e inventory locat	tions:				
	Buildi	ng/Room Number		4-7-74-1-4-1	Number of Containers/Tanks		
	N/A						

2.3	Current stored	l inventory for th	is strea	m.			
	Total volume (cubic meters):			0.000		
-	Date of invento	ry values:					
	Comments on v	vaste inventory:					
	Waste is being	accumulated in S	AA.				
2.4	Is storage caps	icity at this locat	ion pote	ntially an	issue for this w	aste stream	1?
	Yes	•		No			
	If yes, what is t	he total estimated	l storage	capacity?	ı		
	When is this ca	pacity expected t	o be read	ched?			
	Bases and assu	mptions used:					
	N/A						
2.5	Planned stora	ge areas for this v	waste:				
		Location	X	CWC			DST
	Other A	rea(s) (list):	N/A				'
	☐ None						
2.6	Estimated gen	eration projectio	n by cal	lendar ves	ır (includes was	ste in satelli	te and 90-day
	accumulation		•	•	`		-
	Year	m ³	and/or	kg			
	2003	0.000					
	2004	19.200					
	2005	19.200					
	2006	12.800					
	2007	12.800		-	===		
	Total	64.000		<u></u>			
2.7	DOE Storage	Compliance Asse	essment	informati	on:		
	Assessn	nent has been com	pleted.				
	Document Nu	nber				Date	
	Assessn	nent has been sch	eduled.	Scheduled	l date:		
	Other, E	Explain: N/A					
2.8	Applicable Tr	i-Party Agreeme	nt miles	tones rela	ted to storage a	it this locati	ion:
	Milestone Nur			*	Due Date		
	N/A				N/A		

2.9		ere ever been any no the environment?	n-permitte	d, una	uthorized r	elease of this wa	ste str	eam from this storage
		Yes	×	No				
	If yes,	summarize releases a	nd quantitie	s and j	provide date	:		
	N/A							
2.10	Are the	ere any plans to sub	mit request:	s for v	ariances or	other exemption	as relat	ed to storage?
	□ '	Yes	×	No				
	If yes, e	explain: N/A						
2,11	Charac	terization						
	2.11.1	Is further charac	terization n	eeded	about the w	vaste prior to ac	ceptan	ce for storage?
		☐ Yes		X	No			Unknown at this time
		Milestone Number				Due Date		
		N/A				N/A		7
		If yes or unknown	comment of	on chai	racterization	for storage.		-
		N/A						
	2.11.2	Is further charact	erization n	eeded	about the w	aste prior to ac	ceptano	e for treatment?
		☐ Yes		\boxtimes	No	·		Unknown at this time
		Milestone Number				Due Date		
		N/A	•			N/A	*****	7
		If yes or unknown,	comment of	n char	acterization	for treatment		. I
		N/A						
	2.11.3	Is further charact	erization n	eeded	about the w	aste prior to ac	entano	e for disposal?
		☐ Yes		×	No		-	Unknown at this time
		Milestone Number				Due Date		
		N/A			-	N/A		
		If yes or unknown,	comment o	n char	acterization	for disposal.		uu-l
		N/A						
2.12	Other k	ey assumptions rela	ted to stora	ge, inv	entory, and	i generation inf	ormatic	on;
	None.							

3.0 WASTE MINIMIZATION

3.1	Has a w	aste minimizatio	n assessment b	een compl	ted for this sti	ream?
	□ <i>y</i>	es	×	No		
	If yes, p	rovide date assess	ment conducte	d:		N/A
	If yes, p	rovide document	number or othe	r identifica	ion:	
	N/A					
	If no, p	rovide date assessi	ment will be co	mpleted, or	if waste strean	n is no longer generated, then indicate N/A:
	Assessn	nent not scheduled	at this time.			
3.2	stream	(e.g., process cha through segrega	nges to reduce	or elimina	te LDR waste,	the generation of this methods to reduce stitution of less-toxic
	Lead ite	ems will be reused	, excessed or re	ecycled. Pu	rchasing of nev	w lead materials will be limited.
3.3	Waste	minimization sch	edule			
	3.3.1	Reduction achi	ieved during ca	alendar yes	r 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	re waste volum	e reduction	ns	
		Year	m ³	and/or	kg	_
		2003	0.000]		
		2004	0.000	_		
		2005	0.000	_		
		2006	0.000	_		
		2007	0.000	_		
		Total	0.000]		
	3.3.3	Bases and assu	mptions used	in above es	timates:	

None.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

Unit/Pl	ant name:	327		Waste St	ream:	Elemental Lead
Treata	bilitiy Group Na	me:	MLLW-	-05 - Elemental Lead		
Applica	able profile numi	ber(s) for this v	vaste strean	n:		
N/A						
Waste:	stream source inf	formation				
1.3.1	General descri		aste (e.g., sp	oill clean-up waste, discar	ded lab mate	rials,
	Lead bricks, le	ad sheets, lead l	blankets, and	d lead shot.		
1.3.2	History of how	v and where the	e waste was	/is generated:		
	Lead items wer	re used to provi	ded shieldin	ng, or were used as manipu	lator counter	balances.
1.3.3	Source of the 1	regulated const	ituents:			
	Lead.					
1.3.4	Source of the i	nformation (e.	g., analytica	al data, process knowledg	e, document	number, etc.)
	Process knowle	edge.				
1.3.5	Additional not	tes:				
	None.					
2	.0 WASTE STI	REAM STOR	AGE, INV	VENTORY, AND GEN	ERATION	INFORMATION
(NOTE:	For waste in sa	tellite accumula	ition areas a	and 90-day accumulation ar	eas, skip to S	ection 2.6.)
Curren	t storage method	l				
	Container (pad)		Container	(covered)	Container	(retrievably buried)
ПТ	ank		DST		SST	
c	other (explain):					
2.1.1	How was the w	aste managed	prior to sto	rage?		
N/A						
2.1.2	Timeframe wh	en waste was p	laced to sto	orage?		
N/A						
Storage	inventory location	ons:				

2.3	Current stored	l inventory for t	his strea	m.			
	Total volume (cubic meters):			0.000		
	Date of invento	ry values:					
	Comments on v	waste inventory:					
	Waste is being	accumulated in S	SAA.				
2.4	ls storage caps	icity at this loca	tion pote	ntially an	issue for this was	te stream?	
	☐ Yes		\boxtimes	No			
	If yes, what is t	he total estimate	d storage	capacity?	,	N/A	
	When is this ca	pacity expected	to be rea	ched?		N/A	
	Bases and assu	mptions used:					
	N/A	•					
2,5	Planned storag	ge areas for this	waste:				
		Location	×	CWC		П	DST
	Other A	rea(s) (list):	N/A				
	☐ None	,,,,,					
2.6	Estimated gen	eration projectio	on by cal	endar ves	ır (includes waste	in satellite	and 90-day
	accumulation		v				,
	Year	m ³	and/or	kg			
	2003	0.000		<u> </u>			
	2004	1.500					
	2005	0.000					
	2006	0.000					
	Total	3.000					
	DOE C						
2.7	_	Compliance Ass		ınıormatı	on:		
	Assessm	ent has been con	npietea.				
	Document Nur	nber				Date	
	☐ Assessm	ent has been sch	eduled.	Scheduled	l date:		
	Other. E						
		•		_			
2.8			ent miles	tones rela	ted to storage at ti	his location	:
	Milestone Num	nber	.		Due Date		
	N/A				N/A	l	

2.9		ere ever been a the environme	-	ed, una	uthorized r	elease of this wa	ste stre	eam from this storage
		Yes	×	No				
	If yes,	summarize rele	ases and quantitie	es and p	orovide date	::		
	N/A							
2.10	Are the	ere any plans to	o submit request	s for v	artances or	other exemption	ns relat	ed to storage?
	-	Yes	×	No				
	If yes, e	explain:	N/A					
2.11	Charac	terization						
	2.11.1	Is further ci	aracterization r	ieeded	about the v	vaste prior to ac	ceptan	ce for storage?
		Yes		X	No			Unknown at this time
		Milestone N	umber			Due Date		
		N/A	<u></u>			N/A		7
		If was or unk	nown, comment	on char	acterization	for storage		_
		N/A	nown, comment	on Cha	actor ization	i foi stolage.		
	2.11.2		erectorization m	hahaa	ahout the u	vaeta nriar ta aa	aantan.	ce for treatment?
	2.11.2	Yes	iai actel izacion i	×	No No	vaste prior to ac	•	Unknown at this time
		Milestone N	hau			Due Date		
		N/A	umoer			N/A		7
								_
		•	nown, comment	on chai	acterization	for treatment.		
		N/A						
	2.11.3		aracterization n			vaste prior to ac	-	•
		☐ Yes		X	No			Unknown at this time
		Milestone N	umber			Due Date		
		N/A				N/A		
		If yes or unk	nown, comment	on char	acterization	for disposal.		_
		N/A	•			•		
2.12	Other L		s related to stor:	age, in	entory, an	d generation inf	ormati	on:
· - #	None	,		B11		- 8 B11		

3.0 WASTE MINIMIZATION

3.1	Has a w	vaste minimizatio	n assessment b	een compl	eted for this st	ream?
	Y	i es	X	No		
	If yes, p	provide date assess	ment conducted	d :		N/A
	If yes, p	provide document	number or othe	r identifica	tion:	
	N/A					
	If no, pr	rovide date assessi	ment will be con	mpleted, or	if waste stream	m is no longer generated, then indicate N/A:
	Not sch	eduled at this time	: .			
3.2	stream	(e.g., process cha through segrega	nges to reduce	or elimina	te LDR waste	g the generation of this , methods to reduce ostitution of less-toxic
	Excess	of unused and uno	ontaminated lea	ad. Purcha	sing of new lea	ad items will be limited.
3.3	Waste 1	minimization sch	edule			
	3.3.1	Reduction achi	ieved during ca	lendar yea	ır 2002 (volun	ne or mass)
		0.000	m3			
	3.3.2	Projected futu	re waste volum	e reduction	ns	
		Year	m ³	and/or	kg	_
		2003	0.000			
		2004	0.000			_
		2005	0.000			
		2006	0.000]
		2007	0.000			
		Total	0.000]
	3.3.3	Bases and assu	mptions used i	n above es	timates:	

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pl	ant name:	CWC		Waste Strea	m:	Elemental Lead
	Treata	bilitiy Group N	ame:	MLLW-05 - Elements	al Lead		
1.2	Applica	able profile nun	nber(s) for this v	vaste stream:			
	N/A						
1.3	Waste	stream source i	nformation				
	1.3.1	General desc maintenance	=	aste (e.g., spill clean-up v	waste, discarde	i lab mate	rials,
				al lead solids (bricks, sho us debris or the lead may		•	•
	1.3.2	History of ho	w and where the	e waste was/is generated	:		
		The waste wa	s generated at ma	any onsite locations and a	also by offsite ge	enerators.	
	1.3.3	Source of the	regulated const	ituents:			
		See 1.3.1 and	1.3.2.				
	1.3.4	Source of the	information (e.	g., analytical data, proce	ess knowledge, o	document	number, etc.)
		Analytical da	ta and process kn	owledge.			
	1.3.5	Additional no	otes:				
		None.					
	2	2.0 WASTE ST	TREAM STOR	AGE, INVENTORY,	AND GENE	RATION	INFORMATION
	(NOTE	: For waste in s	atellite accumula	ation areas and 90-day ac	cumulation area	s, skip to S	Section 2.6.)
2.1	Сигтеп	t storage metho	d				
		Container (pad)	×	Container (covered)		Container	(retrievably buried)
		Tank		DST		SST	
		Other (explain):					
	2.1.1	How was the	waste managed	prior to storage?			
	Accum	ılated and packa	ged by waste ger	nerators prior to storage a	t CWC.		
	2.1.2	Timeframe w	hen waste was p	laced to storage?			
	Waste s	torage began at	CWC in 1988 an	d continues.			

Storage inv	entory locations:			
Building/Ro	oom Number		Numbe	er of Containers/Tanks
cwc			1,138	
Current sto	red inventory for (this stres	am.	
Total volum	e (cubic meters):		429.000)
Date of inve	ntory values:		01/06/2003	
Comments of	on waste inventory:			
Based on in	ventory residing at	the CWC	C as reported in S	WITS for WSRds EPB, 800, 801, and 803.
Is storage c	apacity at this loca	tion pot	entially an issue	for this waste stream?
☐ Yes		X	No	
If yes, what	is the total estimate	ed storag	e capacity?	N/A
When is this	capacity expected	to be rea	iched?	N/A
Bases and as	ssumptions used:			
No issues w	ith CWC storage ba	ased on 2	0 year waste ger	neration forecast.
Planned sto	rage areas for this	waste:	_	
	nt Location	\boxtimes	CWC	☐ DST
	Area(s) (list):	_		
☐ None				
Estimated e	eneration projecti	on by ca	lendar vear (inc	ludes waste in satellite and 90-day
accumulatio		•	* `	
Year	m ³	and/or	kg	,
2003	0.000			
2004	0.000	_		
2005	0.000	_		
2006	0.000	1	ļ	
2007	0.000	-		
Total	0.000]]
DOE Storag	ge Compliance Ass	essment	information:	
★ Asses	sment has been cor	mpleted.		
Document N	Number			Date
A&E-SEC-	02-001			01/21/2002

		ssessment h	s been schedule	d. Schedul	ed date:			
		Other. Explain	ı:					
2.8	Applica	ble Tri-Part	y Agreement m	ilestones re	lated to stors	ige at this loc	ation:	
	Milest	one Number			Due Date			
	M-020	-12			10/31/1991			
2.9		re ever been the environn		tted, unaul	horized relea	se of this wa	ste strea	m from this storage
	۲ 🗆	es es	Σ] No				
	If yes, s	ummarize rel	eases and quant	ities and pr	ovide date:			
	N/A							
2.10	Are the	re any pians	to submit requ	ests for var	iances or oth	er exemption	s relate	d to storage?
		es .	[<u>S</u>					
	If yes, e	xplain:	N/A	_				
2.11	Charac	terization						
	2.11.1	Is further	characterizatio	n needed a	bout the wast	e prior to ac	ceptance	e for storage?
		Yes		X	No			Unknown at this time
		Milestone	N7			Due Date		
		N/A	Number			N/A	-]
						<u> </u>		1
		-	ıknown, comme	nt on chara	cterization for	r storage.		
		N/A						
	2.11.2	Is further	c harac terizatio	n needed a	bout the wast	e prior to ac		e for treatment?
		☐ Yes		\boxtimes	No		t	Inknown at this time
		Milestone	Number			Due Date		
		N/A	TTGINOUS			N/A]
		If you are	ıknown, comme	ent on aboro	aterization for	trastment	· · · ·	1
		N/A	ikiiowii, comine	in On Chara	Clerization for	i ireamiem.		
					D 4 4 b		4	. f diamaga 19
	2.11.3		characterizatio 			e prior to ac		Inknown at this time
		☐ Y	- 3	×	No		⊔ '	AIMIO WIT OF UITS UITE
		Milestone	Number			Due Date		
		N/A		**		N/A]
						· · · · · · · · · · · · · · · · · · ·		-

		If yes or unkno	wn, comment or	n character	ization for disp	osal.
		N/A				
2.12	Other	key assumptions	related to storag	ge, invento	ory, and genera	tion information:
	None.					
				3.0 WAS	STE MINIMI	ZATION
3.1	Has a	waste minimizatio	on assessment bo	een compl	eted for this st	ream?
		Yes	\boxtimes	No		
	If yes,	provide date asses	sment conducted	i:		N/A
	If yes,	provide document	number or other	identifica	tion:	
	N/A					
	If no, p	provide date assess	ment will be cor	npleted, o	r if waste strean	n is no longer generated, then indicate N/A:
	None p	olanned - waste no	t generated at C\	VC.		
3.2	stream	n (e.g., process cha e through segrega	inges to reduce	or elimina	ite LDR waste,	, the generation of this methods to reduce stitution of less-toxic
		activities occur be es placed into stora		re shipped	I to CWC. The	re are few opportunities to reduce waste
3.3	Waste	minimization sch	edule			
	3.3.1	Reduction ach	ieved during ca	lendar ye	ar 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	re waste volume	e reductio	ns	
		Year	m ³	and/or	kg	
		2003	0.000]		
		2004	0.000			
		2005	0.000	_		
		2006	0.000	-		
		2007	0.000	4		
		Total	0.000	-	1	

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1	Unit/Pl	ant name:	PFP		Waste Stre	eam:	Elemental Lead
	Treatal	bilitiy Group N	ame:	MLI	LW-05 - Elemental Lead		
2	Applica	able profile nur	nber(s) for th	is waste st	ream:		
	Not yet	developed.					
3	Waste s	stream source i	nformation				
	1.3.1	General desc maintenance		e waste (e.g	., spill clean-up waste, discard	ed lab mater	rials,
		Elemental lea	d previously	used for shi	ielding.		
	1.3.2	History of ho	w and where	the waste	was/is generated:		
		Elemental lea	ıd previously ı	used for shi	ielding.		
	1.3.3	Source of the	e regulated co	nstituents:	:		
		Intrinsically l	nazardous.				
	1.3.4	Source of the	information	(e.g., analy	ytical data, process knowledge,	document i	number, etc.)
		Analytical da	ta, process kn	owledge.			
	1.3.5	Additional n	otes:				
		None.					
	2	.0 WASTE ST	FREAM ST	ORAGE,	INVENTORY, AND GENE	RATION	INFORMATION
	(NOTE:	For waste in s	satellite accum	nulation are	eas and 90-day accumulation are	as, skip to S	ection 2.6.)
l	Curren	t storage metho	od				
		Container (pad)		Contai	iner (covered)	Container	(retrievably buried)
	□ T	`ank		DST		SST	•
		Other (explain):					
	2.1.1	How was the	waste manag	ed prior to	storage?		
	N/A						
	2.1.2	Timeframe w	hen waste wa	as placed to	storage?		
	N/A						
:	Storage	inventory loca	tions:				

2.3	Curre	ent stored	inventory for t	his strea	m.			
	Total	volume (cı	ubic meters):		0.00	0		
	Date of	of inventor	y values:					
	Comn	nents on w	aste inventory:					
			shielding prior t ea/90 day accun			Lead will not be	e stored, it v	vill go to a satellit
2.4	Is sto	rage capac	city at this locat	tion pote	ntially an issue	e for this waste :	stream?	
		Yes			No			
	If yes	, what is th	ne total estimate	d storage	capacity?			
	When	is this car	acity expected	to be read	ched?			
		-	nptions used:					
	None.		•					
2.5			e areas for this	waste:				
4. 3	[]	Current L		× × × ×	CWC			ST
			ea(s) (list):					
		None						
2.6	Estim	ated gene	ration projection	on by cal	lendar year (in	cludes waste in	satellite an	d 90-day
	ассит	nulation a	reas):					
		Year	m³	and/or	kg	_		
		2003	0.360			_		
		2004	0.700			_		
		2005	0.700	}		4		
	<u> </u>	2006	0.360			\dashv		
		2007	0.200			=		
		Total	2.320]		_		
2.7	DOE	Storage C	Compliance Ass	essment	information:			
	\boxtimes	Assessm	ent has been cor	npleted.				
								•
	Doc	ument Num	ber				Date	
		Env. Comp #01-A&E-1	oliance Assess.; 129				09/13/2001	
		Assessm	ent has been sch	reduled.	Scheduled date	3:		
		Other. Ex						
	1 1	~	Springer.					

171110310	one Num	001			Due Da	ate		
N/A				- "	N/A			
		been any non- ronment?	permitte	d, una	uthorized r	elease of this wa	ste stre	eam from this storage
□ Y	es		X	No				
If yes, s	ummari:	ze releases and	quantitie	s and p	orovide date	;		
N/A								
Are the	re any p	lans to submi	t request	s for v	ariances or	other exemption	ns relat	ed to storage?
□ Y	'es		\boxtimes	No				
lf yes, e	xplain:	N/A						
Charac	terizatio	o n						
2.11.1	Is fur	ther character	ization n	eeded	about the w	aste prior to ac	ceptan	ce for storage?
	X	Yes			No			Unknown at this time
	Mile	stone Number				Due Date		
	N/A					N/A		
	<u> </u>	or unknown, c	omment (on chai	acterization			
	If yes Will b		l before t			for storage.	is neces	sary for the characterize
2.11.2	If yes Will b	e characterized on this MLLW	i before t	ransfer	to CWC. N	for storage.		ssary for the characterize
2.11.2	If yes Will b	e characterized on this MLLW	i before t	ransfer	to CWC. N	for storage.	ceptano	
2.11.2	If yes Will beneeds Is fur	e characterized on this MLLW ther character	i before t	ransfer	to CWC. N	for storage.	ceptano	ce for treatment?
2.11.2	If yes Will beneeds Is fur	e characterized on this MLLW ther character Yes	i before t	ransfer	to CWC. N	for storage. No commitment of the commitment of	ceptano	ce for treatment?
2.11.2	If yes Will be needs Is fur	oe characterized on this MLLW ther character Yes	i before t	ransfer eeded	to CWC. N about the w No	for storage. No commitment in a commitment of	ceptano	ce for treatment?
2.11.2	If yes Will be needs Is fur	e characterized on this MLLW ther character Yes	i before t	ransfer eeded	to CWC. N	for storage. No commitment in a commitment of	ceptano	ce for treatment?
2.11.2 2.11.3	If yes Will be needs Is fur Mile N/A If yes N/A	on this MLLW ther character Yes stone Number or unknown, c	i before t	ransfer	about the w	for storage. No commitment is a commitment of the prior to accommitment o	ceptano	ce for treatment? Unknown at this time
	If yes Will be needs Is fur Mile N/A If yes N/A	on this MLLW ther character Yes stone Number or unknown, c	i before t	eeded	about the w	for storage. No commitment in a commitment of	ceptano	Unknown at this time
	If yes Will be needs Is fur Mile N/A If yes N/A	on this MLLW ther character Yes stone Number or unknown, c	i before t	ransfer	about the w No	for storage. No commitment is a commitment of the prior to accommitment o	ceptano	ce for treatment? Unknown at this time
	If yes Will be needs Is fur Mile N/A If yes N/A Is fur	on this MLLW ther character Yes stone Number or unknown, c	i before t	eeded	about the w No	for storage. No commitment is a commitment of the prior to accommitment o	ceptano	ce for treatment? Unknown at this time

2.12	Other ke	ey assumptions	related to stora	ge, invent	ory, and genera	ation information:
	None.					
				3.0 WA	STE MINIMI	ZATION
3.1	Has a wa	aste minimizatio	on assessment be	een comp	leted for this st	ream?
		es		No		
	If yes, pr	ovide date asses	sment conducted	1 :		CY 2001
	If yes, pr	ovide document	number or other	dentifica	ation:	
	PFP 200	l Waste Minimi	zation Evaluation	n for LDR	Report Waste	Streams, Letter# M2100-02-016
	If no, pro	ovide date assess	ment will be cor	npleted, o	r if waste stream	n is no longer generated, then indicate N/A:
3.2	stream (e.g., process cha through segrega	nges to reduce	or elimina	ite LDR waste,	g the generation of this methods to reduce stitution of less-toxic
		inely evaluates t be either recycle				ropriate and necessary. Lead with no justifiable of reorder.
3.3	Waste m	inimization sch	edule			
	3.3.1	Reduction ach	ieved during ca	lendar ye:	ar 2002 (volum	e or mass)
		0.000	m3			•
	3.3.2	Projected futu	re waste volume	reductio	ns	
		Year	m ³	and/or	kg	
		2003	0.000]		
		2004	0.000]		
		2005	0.000			
		2006	0.000			
		2007	0.000			
		Total	0.000			

3.3.3 Bases and assumptions used in above estimates:

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program which looks for further opportunities to reduce waste production or recycle.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pi	ant name:	T Plant Cor	nplex		Waste Strea	m:	Elemental Lead
	Treata	bilitiy Group Na	me:	MLI	W-05 - Element	al Lead		
1.2	Applica	able profile num	ber(s) for this v	waste sti	ream:			
	800							
1.3	Waste	stream source ir	formation					
	1.3.1	General desc maintenance	-	aste (e.g	., spill clean-up	waste, discardec	l lab mater	rials,
		Radioactive le	ad solids.					
	1.3.2	History of ho	w and where th	e waste	was/is generated):		
		Light-bulb tip	S .					
	1.3.3	Source of the	regulated cons	tituents:	:			
		See 1.3.1 and	1.3.2					
	1.3.4	Source of the	information (e.	g., anal	ytical data, proce	ess knowledge, o	locument 1	number, etc.)
		Process know	ledge.					
	1.3.5	Additional no	tes:					
		None.						
	:	2.0 WASTE ST	REAM STO	RAGE,	INVENTORY	, AND GENEI	RATION	INFORMATION
	(NOTE	: For waste in s	atellite accumul	ation are	eas and 90-day ac	cumulation area	s, skip to S	ection 2.6.)
2.1	Currer	ıt storage metho	d					
	X	Container (pad)	×	Conta	iner (covered)		Container	(retrievably buried)
		Tank		DST			SST	
		Other (explain):						
	2.1.1	How was the	waste managed	prior to	storage?			
	Genera	ted during routin	e maintenance a	nd packa	aged accordingly			
	2.1.2	Timeframe w	hen waste was	placed t	o storage?			
	2002.							
2.2	Storag	e inventory locat	ions:					
	Buildi	ng/Room Number			Number of Cont	ainers/Tanks		
	T Plar	nt Complex			1			

2.3	Current stored inventory for this stream.	
	Total volume (cubic meters):	0.208
	Date of inventory values: 12/31/20	002
	Comments on waste inventory:	
	None.	
2.4	Is storage capacity at this location potentially as	n issue for this waste stream?
	☐ Yes 🔀 No	
	If yes, what is the total estimated storage capacity	? N/A
	When is this capacity expected to be reached?	N/A
	Bases and assumptions used:	
2.5	Planned storage areas for this waste:	
	Current Location CWC	DST
	Other Area(s) (list):	
	☐ None	
2.6	Estimated generation projection by calendar ye	ar (includes waste in satellite and 90-day
	accumulation areas):	
	Year m ³ and/or k	<u> </u>
	2003 0.000	
	2005 0.000	
	2006 0.000	
	2007 0.000	
	Total 0.000	
2.7	DOE Storage Compliance Assessment informat	ion:
	Assessment has been completed.	
	Document Number	Date
	01-A&E-012	11/28/2000
	Assessment has been scheduled. Scheduled	d date: 3rd quarter CY2005
	Other. Explain:	
2.8	Applicable Tri-Party Agreement milestones rela	ated to storage at this location:
	Milestone Number	Due Date
	N/A	N/A

2.9		re ever been any non-po the environment?	ermitte	d, unai	ıthorized rel	ease of this wa	iste stre	am from this storage
	_ Y	es es	X	No				
	If yes, s	ummarize releases and q	uantitie	s and p	rovide date:			
	N/A							
2.10	Are the	re any plans to submit r	equest	s for va	riances or o	ther exemption	ns relate	ed to storage?
	□ Y	'es	\boxtimes	No				
	If yes, e	xplain: N/A						
2.11	Charac	terization						
	2.11.1	Is further characteriz	ation n	eeded :	about the wa	ste prior to ac	ceptano	e for storage?
		☐ Yes		X	No			Unknown at this time
		Milestone Number				Due Date		
		N/A				N/A		7
		If yes or unknown, con	nment /	on char	acterization f	or storage		_
		N/A	inicate v	on Char	iciciizanon i	or storage.		
	2.11.2	Is further characteriz	ation n	aadad s	shout the we	ste prior to ac	contanc	a far traatmant?
	2.11.2	☐ Yes	ALLOH II	⊠	No	ste prior to ac	_	Unknown at this time
		Milestone Number				Due Date		7
		N/A		~		N/A		<u> </u>
		If yes or unknown, con	nment (on char	acterization f	or treatment.		
		N/A						
	2.11.3	Is further characteriz	ation n	eeded a	bout the wa	ste prior to ac	ceptanc	e for disposal?
		☐ Yes		\boxtimes	No		_ ¹	Unknown at this time
		Milestone Number				Due Date		
		N/A				N/A		
		If yes or unknown, con	nment (on chara	acterization f	or disposal.		
		N/A						
2.12	Other k	ey assumptions related t	to stora	ıge, inv	entory, and	generation ini	ormatic	on:
	None							

3.0 WASTE MINIMIZATION

3.1	Has a w	aste minimizatio	n assessment be	en compl	eted for this str	ream?
	□ Y	es	X	No		
	If yes, p	rovide date asses	sment conducted	l:		N/A
	If yes, p	rovide document	number or other	identifica	tion:	
	N/A					
	If no, pr	ovide date assess	ment will be cor	npleted, or	if waste stream	n is no longer generated, then indicate N/A:
	N/A					
3.2	stream	(e.g., process cha through segrega	inges to reduce	or elimina	te LDR waste,	the generation of this methods to reduce stitution of less-toxic
	mixed v Comple	vaste is reducted	by compoaction ely seek non-dar	where pos	sible. To minir	ckaged separately from LLW. The volume of mize the generation of mixed waste, T Plant is. In addition, waste minimization goals are so
3.3	Waste i	minimization sch	edule			
	3.3.1	Reduction ach	ieved during ca	lendar ye:	ar 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	ire waste volum	e reductio	ns	
		Year	m ³	and/or	kg	
		2003	0.000]
		2004	0.000]		
		2005	0.000	_		
		2006	0.000			
		2007	0.000	_		
		Total	0.000]

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2003 goal to reduce, where possible, mixed waste generation. For FY 2003 to 2007, new goals will be evaluated and idnetified on a year-by-year basis. T Palnt Comples does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Wmin/P2 group.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	Tank Farm	Facilities	Waste Stre	eam: I	Elemental Lead
	Treata	bilitiy Group Na	me:	MLLW-05 - Elem	ental Lead		
1.2	Applic	able profile num	ber(s) for this	waste stream:			
	800.						
1.3	Waste	stream source in	formation				
	1.3.1	General descr maintenance		aste (e.g., spill clean-u	ıp waste, discard	ed lab materia	ls,
		Lead waste inc variety of appl	cludes raw lead, ications to shiel	, lead shots, lead bricks ld and reduce radiation	s, lead sheets and n exposure dose ra	lead wool whic	h are used in a
	1.3.2	History of hov	v and where th	e waste was/is genera	ted:	-	
		Lead in variety DST System a	of shapes or fond SST System	orms is used for shieldi . When it is determine	ing during operati ed that this lead is	on, upgrades ar unusable, it is e	id clean up at the disposed of.
	1.3.3	Source of the	regulated const	tituents:			
		The lead itself	is hazardous, it	can also be contamina	ited with tank was	ete.	
	1.3.4	Source of the	information (e.	g., analytical data, pr	ocess knowledge,	document nui	nber, etc.)
		Analysis Attac	hment", HNF-S	e. "Tank Farm Solid V D-WM-PLN-119, RE's for tank farm solid wa	V. 01, describes tl	ation Guide wit he basis for his	h Sampling and corical and process
	1.3.5	Additional not	tes:				
		None.					
	2	2.0 WASTE ST	REAM STOR	RAGE, INVENTOR	Y, AND GENE	RATION IN	FORMATION
	(NOTE	: For waste in sa	tellite accumula	ation areas and 90-day	accumulation are	as, skip to Sect	ion 2.6.)
2.1	Curren	t storage method	l				
		Container (pad)		Container (covered)		Container (re	trievably buried)
	T 🗌	ank		DST		SST	
		Other (explain):					
	2.1.1	How was the w	aste managed	prior to storage?			
	N/A						
	2.1.2	Timeframe wh	en waste was p	laced to storage?			
	N/A						

Building/Room	Number		Number of Containers/Tanks	
N/A				
Current stored	inventory for t	his stream.		
Total volume (co	ubic meters):		0.000	
Date of inventor	y values:			
Comments on w	aste inventory:			
Managed in SA	A and 90 day ac	cumulation are	as.	
Is storage capac	city at this locat	tion potentially	an issue for this waste stream?	
Yes		No		
If yes, what is th	ne total estimate	d storage capac	city?	
When is this cap	acity expected	to be reached?		
Bases and assun	nptions used:			
N/A				
Planned storage	e areas for this	waste:		
Current L		□ cwo		DST
_		_	_	
☐ Other Are	ea(s) (list):			
Other Are	ea(s) (list):			
☐ None		on hy calendar	vear (includes waste in satellite	e and 90-day
☐ None	ration projecti	on by calendar	year (includes waste in satellite	e and 90-day
None None	ration projecti	on by calendar	year (includes waste in satellite	e and 90-day
None Estimated gene accumulation a	ration projecti (reas):			e and 90-day
None Estimated gene accumulation a Year 2003 2004	eration projecti reas): m³			e and 90-day
None Estimated gene accumulation a Year 2003	eration projection reas): m ³ 1.852 2.037 2.241			e and 90-day
None Estimated gene accumulation a Year 2003 2004 2005 2006	m ³ 1.852 2.037 2.241 2.465			e and 90-day
None Estimated gene accumulation a Year 2003 2004 2005	eration projection reas): m ³ 1.852 2.037 2.241			e and 90-day
None Estimated gene accumulation a Year 2003 2004 2005 2006	m ³ 1.852 2.037 2.241 2.465			e and 90-day
None Estimated generation as Year 2003 2004 2005 2006 2007 Total	m ³ 1.852 2.037 2.241 2.465 2.711	and/or	kg	e and 90-day
None Estimated gene accumulation a Year 2003 2004 2005 2006 2007 Total	eration projection reas): m ³ 1.852 2.037 2.241 2.465 2.711 11.306	and/or	kg	e and 90-day
None Estimated gene accumulation a Year 2003 2004 2005 2006 2007 Total	m ³ 1.852 2.037 2.241 2.465 2.711 11.306 Compliance Ass	and/or	kg	e and 90-day
None Estimated gene accumulation a Year 2003 2004 2005 2006 2007 Total	m ³ 1.852 2.037 2.241 2.465 2.711 11.306 Compliance Assent has been con	and/or	kg	e and 90-day

whit to the environment? Yes No If yes, summarize releases and quantities and proving N/A Are there any plans to submit requests for variant Yes No If yes, explain: N/A Characterization 2.11.1 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A Is further characterization needed about N/A	nces or other exemptions related to storage? ut the waste prior to acceptance for storage?						
whit to the environment? Yes No If yes, summarize releases and quantities and proving N/A Are there any plans to submit requests for variant Yes No If yes, explain: N/A Characterization 2.11.1 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A Is further characterization needed about N/A	ide date: nees or other exemptions related to storage? ut the waste prior to acceptance for storage?						
If yes, summarize releases and quantities and proving N/A Are there any plans to submit requests for variant Yes No No If yes, explain: N/A Characterization 2.11.1 Is further characterization needed about Milestone Number N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Milestone Number N/A If yes or unknown, comment on character N/A Is further characterization needed about N/A 2.11.3 Is further characterization needed about N/A	nces or other exemptions related to storage? ut the waste prior to acceptance for storage?						
Are there any plans to submit requests for variant Yes No If yes, explain: N/A Characterization 2.11.1 Is further characterization needed about Milestone Number N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Milestone Number N/A If yes or unknown, comment on character N/A Is further characterization needed about N/A	nces or other exemptions related to storage? ut the waste prior to acceptance for storage?						
Are there any plans to submit requests for variant Yes	ut the waste prior to acceptance for storage?						
Yes	ut the waste prior to acceptance for storage?						
If yes, explain: N/A Characterization 2.11.1 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A If yes or unknown, comment on character N/A If yes or unknown, comment on character N/A Is further characterization needed about							
Characterization 2.11.1 Is further characterization needed about Yes No. Milestone Number N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Yes No. Milestone Number N/A If yes or unknown, comment on character N/A If yes or unknown, comment on character N/A Is further characterization needed about S.11.3 Is furt							
2.11.1 Is further characterization needed about Yes No. Milestone Number N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Yes No. Milestone Number N/A If yes or unknown, comment on character N/A If yes or unknown, comment on character N/A Is further characterization needed about							
Milestone Number N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Milestone Number N/A If yes or unknown, comment on character N/A If yes or unknown, comment on character N/A 2.11.3 Is further characterization needed about Milestone Number							
Milestone Number N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A 2.11.3 Is further characterization needed about	Unknown at this time						
N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A Is further characterization needed about 1.11.3							
N/A If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A Is further characterization needed about N/A 2.11.3 Is further characterization needed about N/A	Due Date						
If yes or unknown, comment on character N/A 2.11.2 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A 2.11.3 Is further characterization needed about N/A	N/A						
N/A 2.11.2 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A 2.11.3 Is further characterization needed about							
2.11.2 Is further characterization needed about Yes No Milestone Number N/A If yes or unknown, comment on character N/A 2.11.3 Is further characterization needed about	rization for storage.						
Milestone Number N/A If yes or unknown, comment on character N/A 2.11.3 Is further characterization needed about							
Milestone Number N/A If yes or unknown, comment on character N/A 2.11.3 Is further characterization needed about							
N/A If yes or unknown, comment on character N/A 2.11.3 Is further characterization needed abou	Unknown at this time						
N/A If yes or unknown, comment on character N/A 2.11.3 Is further characterization needed about	Due Date						
N/A 2.11.3 Is further characterization needed abou	N/A						
N/A 2.11.3 Is further characterization needed abou							
2.11.3 Is further characterization needed abou	ization for treatment.						
□ Vac 🖼 λ	· · · · · · · · · · · · · · · · · · ·						
☐ Yes 🗵 N							
Milestone Number	No Unknown at this time						
N/A	Oue Date Unknown at this time						

2.12	Other key assumptions related to storage, inventory, and generation information: None. 3.0 WASTE MINIMIZATION						
3.1	Has a waste minimization assessment been completed for this stream?						
	□ Y	l'es	×	No		÷	
	If yes, p	orovide date assess	sment conducted	l:		N/A	
	If yes, provide document number or other identification:						
	N/A						
	If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:						
	Unknown at this time.						
	stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials): 1) Survey and release lead items; 2) Recycle lead; and 3) Reduce the amount of lead taken into rad zone.						
3.3	Waste minimization schedule						
	3.3.1	Reduction achieved during calendar year 2002 (volume or mass)					
		0.000	m3				
	3.3.2 Projected future waste volume reductions						
		Year	m ³	and/or	kg		
		2003	0.000				
		2004	0.000				
		2005	0.000				
		2006	0.000	1		1	
		2007	0.000				
		Total	0.000				

3.3.3 Bases and assumptions used in above estimates:

No projected volume reduction at this time, because the volume generated is very small.

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1.0 WASTE STREAM IDENTIFICATION

1.1	Treatabili	ty Group	Name:

MLLW-06 - Elemental Mercury

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

This treatability group is for waste that is determined to meet the "Elemental Mercury Contaminated with Radioactive Materials" subcategory as described in 40 CFR 268.40. Applicable WSRds for this treatability group are: EHG, HHG, 810, 811, and 812. This treatability group consists of liquid mercury, partially amalgamated mercury, mercury spill cleanups, and some debris waste items packaged in with the mercury waste.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters):

13 000

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].

Year	m ³
2003	0.560
2004	1.600
2005	0.700
2006	4.310
2007	0.200
Total	7.370

and/or	kg

3.0 WASTE STREAM CHARACTERIZATION

3.1	Radiol	Radiological Characteristics									
	3.1.1	Mixed waste type:	High-level	Transuranic	Low-leve						
	3.1.2	Handling (as package cor	itents would need to be han	dled during treatment):							
		Contact-handled	Remote-handled								
	3.1.3	Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):									
		Since this waste is a general category based on dangerous waste physical characteristics, the radiological characteristics are expected to vary greatly. However, there is a high confidence that the waste is MLLW. The waste as packaged is considered Contact-Handled (i.e., less than or equal to 200mR/hr on outside package surface); however, the dose rate of some waste inside the package may exceed 200mR/hr.									

3.2	Physic	cal Form								
	3.2.1	.2.1 Physical form of the waste:								
		Solid ☐ Liquid ☐ Semi-solid ☐ Debris								
		Other (Describe in comments.)								
	3.2.2	Comments on physical form:								
		Waste received under the Waste Specification System (WSS) has a high confidence level. Waste received prior to the implementation of the WSS has a low to medium confidence level. For this older waste, the matrix characterization will be verified prior to being sent to treatment and disposal. If during the verification process, it is determined that some of the waste does not meet the MLLW-06 waste stream description, it will be reassigned into the appropriate waste stream (e.g., MLLW-02, MLLW-03, etc.).								
3.3	Regulated constituents and wastewater/non-wastewater category									
	3.3.1	Wastewater/non-wastewater under RCRA								
		☐ Wastewater ☐ Unknown								
	3.3.2	Regulated constituents table including treatment requirements and UHCs, if applicable.								

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable	Ignitable Charac.	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D002	Corrosive	Corrosive Charac.	***	***	Alternative treatment stds for Haz. Debris (40 CFR 268.45)
D004	TC-Arsenic	N/A	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D005	TC-Barium	N/A	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D006	TC-Cadmium	Cadmium Charac.	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D007	TC-Chromium	N/A	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D008	TC-Lead	Lead Charac.	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D009	TC-Mercury	Elemental	***	***	Amalgamation
D009	TC-Mercury	High Mercury	>260 mg/kg	***	RMERC
D011	TC-Silver	N/A	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D019	Carbon Tetrachloride	N/A	**	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D022	Chloroform	N/A	**	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D028	1,2-Dichloroethane	N/A	**	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D035	Methyl Ethyl Ketone	N/A	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
D040	Trichloroethylene	N/A	李章 等	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
F002	Methylene Chloride	Spent Solvent	海水 中	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
F003	Acetone & Hexone	Spent Solvent	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Alternative Treatment stds for Haz. Debris (40 CFR 268.45)
U151	Mercury	Elemental	***	***	Amalgamation
WPOI	Persistant, EHW	N/A	***	***	None (I)
WSC2	Solid Corrosive	N/A	**	***	Remove solid-acid charac.
WT01	Toxic, EHW	N/A	***	***	NONE(1)
WT02	Toxic, DW	N/A	***	***	N/A

^{*} LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

(1) Mixed extremely hazardous wastes may be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).

UHC identification not required for D009 elemental mercury and hazardous debris when using the alternative treatment standards for hazardous debris.

3.3.3		List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.						
		List:						
		No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)						
	X	None (i.e. all constituents/waste numbers of this waste stream still require treatment).						

^{**} If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

^{***}The concentration varies and is based on process knowledge and/or analytical data.

	3.3.4	Does this wa	iste stre	eam contain P	'CBs?						
		☐ Yes		×	No			Unknown			
		If no or unkr	own, sl	kip to Section	3.3.5.						
		3.3.4.1	ls wa	iste stream su	bject to TSC	CA regul	ations for P	CBs?			
				Yes			No			Unknown	
		3.3.4.2	Indic	ate the PCB	concentratio	n range.					
				< 50 ppm			≥ 50 ppm			Unknown	
	3.3.5	What is the	confide	nce level for	the regulated	d constit	uents?				
		☐ Low		Σ	Medium			High			
	3.3.6	Comments	on regu	lated constitu	ents and wa	stewater	/non-waste	water catego:	ry:		
		the impleme elemental m safe handlin the LDR tre	ntation ercury l g conce atment s 'this wa	er the WSS had of the WSS had been amalerns. However standard AMI aste will require posal.	as a low to m gamated by t r, the amalgan GM. A good	nedium con the general mation had d portion	onfidence le ator due to s as not been of the curre	vel. Much of pill cleanups certified as mently stored	f the and neeting		
				4.0 V	VASTE ST	REAM '	TREATM	ENT			
4.1	Is this v	vaste stream c	urrentl	y being treat	ed?						
		es		[2	₹] No						
	If yes, p	provide details:		N/A							
4.2		d treatment: (applicable ге						r treating th	is wast	e stream	
		treatment req									
	☐ Tr	eating or plan	to treat	on site							
	☐ Tr	eating or plan	to treat	off site							
	⊠ Tr	eatment option	s still b	eing assessed							
4.3	Planne	d treatment m	ethod,	facility, exten	t of treatme	nt capaci	ity available	e:			
	treatme and/or l	y amalgamatio nt technology by onsite treatr lity group.	for elem	nental mercury	y. Treatment	will be p	erformed b	y means of co	ommerc	ial contracts,	
4.4	Treatn	ient schedule i	informa	ıtion:							
	Treatm	ent is anticipat	ed to be	performed as	necessary to	support	the results of	of the M-091	TPA di	spute resolution.	

Milestone Nu	рег	Due Date		
N/A		N/A		
Proposed new	ri-Party Agreement tre	atment milestones:		
See Section 4.4				
	anning to treat on site, v	vas or will waste minin	nization be addressed in developing	
☐ Yes		☐ No	Unknown	
If yes, describe	N/A based on 4.	2.		
	treatability equivalency ment or already in place		petitions, and case-by-case exemptions	
amalgamated)	much of the waste in thi	s group. A separate req	oup due to the physical form (partially quest is being considered on the DOE compl rcury-containing batteries instead of RMER	ex C
Key Assumpti	18:			
None.				
	5.	0 WASTE STREAM	I DISPOSAL	
After treatment required, etc. (am be disposed of (incl	lude locations, milestone numbers, varianc	:e:
Subject waste i	imately will be disposed	of in mixed waste trenc	thes located on the Hanford Site.	

B-480

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pl	ant name:	327		Wast	te Stream:	Elemental Mercury		
	Treata	bilitiy Group Na	me:	MLL	W-06 - Elemental Mercu	iry			
1.2	Applica	able profile num	ber(s) for this	waste str	eam:				
	N/A								
1.3	Waste	stream source it	formation						
	1.3.1	General desc maintenance	-	aste (e.g.	, spill clean-up waste, di	iscarded lab 1	naterials,		
		Discarded pre	ssure switches,	and therr	nostats.				
	1.3.2	History of ho	w and where tl	ie waste i	vas/is generated:				
		Used pressure	switches, and	hermosta	ts in radiological contam	inated areas.			
	1.3.3	Source of the	regulated cons	tituents:					
		Pressure swite	hes and thermo	stats con	aining hazardous constit	uents.			
	1.3.4	Source of the	information (e	g., analy	tical data, process know	vledge, docun	nent number, etc.)		
		Process know	ledge.						
	1.3.5	Additional notes:							
		None.							
	:	2.0 WASTE ST	REAM STO	RAGE,	INVENTORY, AND	GENERATI	ION INFORMATION		
	(NOTE	E: For waste in s	atellite accumu	lation are	as and 90-day accumulat	ion areas, skij	p to Section 2.6.)		
2.1	Curre	nt storage metho	d						
		Container (pad)		Contai	ner (covered)	Cont	ainer (retrievably buried)		
		Tank		DST		☐ SST			
		Other (explain):							
	2.1.1	How was the	waste manage	d prior to	storage?				
	N/A								
	2.1.2	Timeframe v	hen waste was	placed t	storage?				
	N/A								
2.2	Storag	ge inventory loca	tions:						
	Build	ing/Room Number			Number of Containers/Ta	nks			
	N/A								

2.3	Current store	d inventory for	this stres	ım.					
	Total volume	(cubic meters):			0.000				
	Date of invent	огу values:							
	Comments on	waste inventory:							
	Waste is being	accumulated in	SAA.						
2.4	Is storage cap	acity at this loca	tion pote	entially a	n issue for this wast	e stream?			
	Yes			No					
	If yes, what is	the total estimate	d storage	capacity	?				
	When is this ca	apacity expected	to be rea	ched?					
	Bases and assu	imptions used:							
	N/A	•							
2.5	Planned stora	ge areas for this	waste.						
		Location	IXI	CWC		[7	DST		
	Other A	rea(s) (list):	N/A			لــا			
	None	(-) ()							
2.6	Year 2003 2004 2005 2006 2007	m ³ 0.200 0.000 0.000 0.000 0.000	and/or	k _i	ar (includes waste i	u sacemie	анц эо-цау		
	Total	0.400							
2.7	-	Compliance Assument has been con		informati	ion:				
	Document Nur	nber				Date			
	Assessment has been scheduled. Scheduled date:								
	Other. E	xplain: N/A	X						
2.8	Applicable Tri	-Party Agreeme	nt miles	tones rela	ited to storage at th	is location	•		
	Milestone Nun				Due Date	100841011	-		
	N/A				N/A				
	1				1	1			

2.9	Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?										
	□ Y	es es		\boxtimes	No						
	If yes, s	ummarize	releases and q	uantitie	s and p	rovide date	1				
	N/A										
2.10	Are the	re any pla	ıns to submit :	request	s for va	riances or	other exemption	ıs relat	ted to storage?		
	_ 1	/es		X	No						
	If yes, e	xplain:	N/A								
2.11	Charac	terization									
	2.11.1	Is furth	Is further characterization needed about the waste prior to acceptance for storage?								
		□ ,	es es		×	No			Unknown at this time		
		Milest	one Number				Due Date				
		N/A					N/A				
		If yes o	r unknown, co	mment	on char	noterization	for storage		<u> </u>		
		N/A	unknown, co.	iliilieili (UII CIIAI	acterization	ioi storage.				
	2.11.2		ou abous stavis			abaut tha m	esta pular ta as		an faw twaatmant?		
	2.11.2		es characteriz	eacion i	×	No No	aste prior to ac	П	ce for treatment? Unknown at this time		
		Milest	one Number				Due Date				
		N/A					N/A				
		If yes or unknown, comment on characterization for treatment.									
		N/A									
	2.11.3	Is furth	er characteriz	zation n	eeded	about the w	vaste prior to ac	ceptan	ce for disposal?		
			Yes		×	No	•		Unknown at this time		
		Milest	one Number				Due Date	Due Date			
		N/A					N/A				
		If yes o	r unknown, co	mment	on char	acterization	for disposal.				
	N/A										
2.12	Other l	key assum	ptions related	to stor	age, in	ventory, an	d generation inf	ormati	ion:		
	None.	•	-		. , -	•,	-				

3.0 WASTE MINIMIZATION

3.1	Has a waste minimization assessment been completed for this stream?											
		Yes	×	No								
	If yes,	provide date asse	ssment conducte	:d:		N/A						
	If yes, p	provide documen	t number or othe	r identifica	ation:							
	N/A											
	If no, p	rovide date asses	sment will be co	mpleted, o	r if waste strea	um is no longer generated, then indicate N/A:						
	Not sch	reduled at this tiπ	ie.									
3.2	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):											
	Recycli	ing of radiologica	l released therm	ostats and	pressure switch	hes, when possible.						
3.3	Waste minimization schedule											
	3.3.1	Reduction achieved during calendar year 2002 (volume or mass)										
		0.000	m3									
	3.3.2	Projected futu	ire waste volum	e reductio	ns							
		Year	m³	and/or	kg							
		2003	0.000]								
		2004	0.000									
		2005	0.000									
		2006	0.000									
		2007	0.000									
		Totai	0.000]								
	3.3.3	Bases and assi	umptions used i	 n above es	timates:	_						

None.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pla	Unit/Plant name:		C Wa			m:	Elemental Mercury		
	Treatab	ilitiy Group N	ame:	MI	LW-06 - Elemental	Mercury				
1.2	Applical	ble profile nu	nber(s) for t	his waste s	tream:					
	N/A	•								
1.3	Waste stream source information									
	1.3.1	General des	-	ie waste (e.	g., spill clean-up wa	iste, discarde	i lab matei	rials,		
					tal mercury, amalgar in their components			is articles containing nometers, etc).		
	1.3.2	History of h	ow and wher	e the wast	e was/is generated:					
		The waste w	as generated	at many on	site locations and by	offsite genera	itors.			
	1.3.3	Source of th	e regulated c	onstituent	s:					
	See 1.3.1 and 1.3.2.									
	1.3.4	Source of th	e informatio	n (e.g., ans	lytical data, process	s knowledge,	document	number, etc.)		
	Analytical data and process knowledge.									
	1.3.5	Additional notes:								
		None.								
	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION									
	(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)									
2.1	Current	storage meth	od							
		ontainer (pad)		⊠ Con	ainer (covered)		Container	(retrievably buried)		
	ПТ	ank		☐ DST			SST			
		ther (explain):	:							
	2.1.1	How was th	e waste man	aged prior	to storage?					
	Accumu	lated and pack	aged by wast	e generato	rs prior to storage at	CWC.				
	2.1.2	Timeframe	when waste	was placed	to storage?					
	Waste s	torage at CWC	began in 19	88 and con	inues.					
2.2	Storage	inventory loc	ations:							
	Buildin	g/Room Numbe	er .		Number of Contain	ners/Tanks				
	cwc				64					

	red inventory for t	his strea	m.			
Total volum	ne (cubic meters):			13.000		
Date of inve	entory values:		01/06/2	:003		
Comments of	on waste inventory:					
Volumes ba	sed on SWITS infor	mation 1	or WSR	ls EHG, HHG, 810, 8	311, and 8	12.
Is storage c	apacity at this locat	ion pote	entially a	n issue for this wast	e stream?	
☐ Yes		X	No			
If yes, what	is the total estimated	d storage	capacity	?	N/A	
When is this	capacity expected t	o be rea	ched?		N/A	
Bases and as	ssumptions used:					
No issues w	ith CWC storage bas	sed on 2	0 year wa	iste generation foreca	ıst.	
Planned sto	rage areas for this v	waste:				
Сигте	nt Location	X	CWC			DST
Other	Area(s) (list):					
None						
accumulation Year		and/or	kį	ar (includes waste in		
2003	0.000					
				į		
2004	0.900					
2005	0.000					
2005 2006	0.000 3.750					
2005 2006 2007	0.000 3.750 0.000					
2005 2006 2007 Total	0.000 3.750 0.000 4.650					
2005 2006 2007 Total DOE Storag	0.000 3.750 0.000		informat	ion:		
2005 2006 2007 Total DOE Storag	0.000 3.750 0.000 4.650 The Compliance Assessment has been compliance as a compl		informat	ion:	Date	
2005 2006 2007 Total DOE Storag Asses	0.000 3.750 0.000 4.650 ge Compliance Assesment has been com		informat	ion:	Date 01/21/200	12
2005 2006 2007 Total DOE Storag Asses Document N A&E-SEC-C	0.000 3.750 0.000 4.650 ge Compliance Assesment has been com	pleted.			·	12
2005 2006 2007 Total DOE Storag	0.000 3.750 0.000 4.650 ge Compliance Asse sment has been com lumber 12-001 sment has been sche Explain:	pleted.	Scheduled	d date:	01/21/200	
2005 2006 2007 Total DOE Storag	0.000 3.750 0.000 4.650 Te Compliance Assessment has been combumber 02-001 Siment has been scheller. Explain: Tri-Party Agreement	pleted.	Scheduled		01/21/200	

2.9	Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?									
	□ Y	es	X	No						
	If yes, summarize releases and quantities and provide date:									
	N/A									
2.10	Are the	re any plans to submit re	quest	s for va	ariances or otl	her exemption	s rela	ted to storage?		
	□ Y	es	X	No						
	If yes, e	xplain: N/A								
2.11	Charact	terization								
	2.11.1	ls further characteriza	tion n	eeded	about the was	te prior to ac	eptan	ce for storage?		
		☐ Yes		X	No			Unknown at this time		
		Milestone Number				Due Date				
		N/A				N/A				
		If yes or unknown, com	ment a	on char	racterization fo	nr storage		_		
		N/A	mioin .	OII CIIII		i ototage.				
	2.11.2	Is further characteriza	ıtion n	eeded	about the was	te nrior to ac	centan	ce for treatment?		
		Yes		X	No			Unknown at this time		
		Milestone Number				Due Date				
		N/A				N/A				
		If yes or unknown, com	ment	on chai	racterization fo	or treatment.		_		
		N/A								
	2.11.3	Is further characteriza	ation n	eeded	about the was	ite prior to ac	ceptan	ce for disposal?		
		☐ Yes		X	No	-		Unknown at this time		
		Milestone Number				Due Date				
		N/A				N/A				
		If yes or unknown, com	nment	on cha	racterization fo	or disposal.				
		N/A								
2.12	Other k	ey assumptions related (io stor	age, in	ventory, and s	generation inf	ormat	ion:		
								elle Columbus Laboratories.		

CWC/

3.0 WASTE MINIMIZATION

3.1	Has a waste minimization assessment been completed for this stream?											
		Yes	X	No								
	If yes, p	provide date asses	sment conducted	d:		N/A						
	If yes, p	provide document	number or othe	r identificat	tion:							
	N/A					·						
	If no, p	rovide date assess	sment will be con	mpleted, or	if waste stream	m is no longer generated, then indicate N/A:						
	None p	lanned - waste no	t generated at C	WC.								
3.2	stream volume materia	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):										
		ctivities occur be s placed into stora		ire shipped	to CWC. The	re are few opportunities to reduce waste						
3.3	Waste minimization schedule											
	3.3.1	Reduction ach	ieved during ca	lendar yea	r 2002 (volum	e or mass)						
		0.000	m3									
	3.3.2	Projected futu	re waste volum	e reduction	ıs							
		Year	m ³	and/or	kg							
		2003	0.000] [
		2004	0.000]								
		2005	0.000	1 1								
		2006	0.000	1 1								

3.3.3 Bases and assumptions used in above estimates:

2007

Total

There is no projected generation by CWC.

0.000

0.000

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pi	lant name:	PFP		Waste Strea	ım:	Hg, Elemental					
	Treata	bilitiy Group Na	me:	MLL	W-06 - Elemental Mercury							
1.2	Applic	able profile num	ber(s) for this v	vaste str	eam:							
	Not yet	developed.										
1.3	Waste	Waste stream source information										
	1.3.1	General desci	=	aste (e.g.	, spill clean-up waste, discarde	d lab mater	ials,					
		Discarded pre	ssure switches a	ınd therm	ostats.							
	1.3.2	History of ho	w and where th	e waste v	vas/is generated:							
		Used pressure	switches and th	ermostat	s in radiological contaminated a	reas.						
	1.3.3	Source of the	regulated cons	tituents:								
		Pressure switches and thermostats containing hazardous constituents.										
	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)											
	Process knowledge											
	1.3.5	Additional notes:										
		None										
	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION											
	(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)											
2.1	Curre	nt storage metho	đ									
		Container (pad)		Contai	ner (covered)	Container	(retrievably buried)					
		Tank		DST		SST						
		Other (explain):										
	2.1.1	How was the	waste manage	l prior to	storage?							
	N/A											
	2.1.2	Timeframe w	hen waste was	placed to	storage?							
	N/A											
2.2	Storag	ge inventory loca	tions:									
	Build	ing/Room Number			Number of Containers/Tanks							

2.3	Current stored inventory for this stream.											
	Total volume (c	ubic meters):		0.0	00							
	Date of inventor	y values:										
	Comments on w	aste inventory	:									
	Waste is being a	ccumulated in	SAA.									
.4	Is storage capac	ity at this loca	ation pote	entially an issu	e for this waste str	eam?						
	Yes	•	•	No		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	If yes, what is th	e total estimat	ed storage	e capacity?								
	When is this cap		•									
		Bases and assumptions used:										
	None.	process about										
5		argos for this										
3	Planned storage Current Le			CWC		E DOM						
	_		\boxtimes	CWC		☐ DST						
	Other Are	a(s) (11st):	NA									
	None											
.6			on by cal	endar year (in	cludes waste in sati	ellite and 90-day						
	accumulation ar	•										
	Year	m ³	and/or]	kg	٦							
	2003	0.360	1									
	2005	0.700 0.700	-		1							
	2006	0.360	1		†							
	2007	0.200			1							
	Total	2.320	1		7							
_	DODG: 0		4		4							
7	DOE Storage Co			information:								
	★ Assessmer	t has been cor	npleted.									
	Danis and Mount	_										
	Document Numb	77 101		•	Date							
	PFP Env. Compli Ltr. #01-A&E-12				09/1	3/2001						
	Assessmen	t has been sch	eduled. S	Scheduled date:								
	Other. Exp	la i n:										
	_											

	ne Number				Due Da	te				
N/A					N/A					
	re ever bed he enviror		ermitte	d, unat	ithorized re	lease of this wa	ste stre	am from this storage		
□ Y	es		\boxtimes	No						
If yes, s	ımmarize	releases and o	quantitie	s and p	rovide date:	:				
Are the	re any plai	ns to submit	requests	s for va	riances or	other exemption	ns relat	ed to storage?		
□ Y	es		X	No	•					
If yes, e	kplain:									
Charact	Characterization									
2.11.1	ls furthe	r characteriz	zation n	eeded :	about the w	aste prior to ac	ceptan	ce for storage?		
	□ Y	es		X	No			Unknown at this time		
	Milesto	ne Number				Due Date				
	N/A					N/A				
	If yes or	unknown, co	mment (on char	acterization	for storage.		1		
	N/A	,								
2.11.2		er characteri:	zation n	eeded .	about the w	aste prior to ac	centan	ce for treatment?		
	10 101 111			×	No			Unknown at this time		
	☐ Y	C3								
	Y	C 3								
		ne Number				Due Date		_		
						Due Date				
	Milesto N/A	ne Number	mment o	on char	acterization					
	Milesto N/A	ne Number	mment (on char	acterization	N/A	······································			
2.11.3	Milesto N/A If yes or N/A	ne Number unknown, co				N/A for treatment.	ceptan	ce for disposal?		
	Milesto N/A If yes or N/A Is further	ne Number unknown, co				N/A for treatment.		ce for disposal? Unknown at this time		
	Milesto N/A If yes or N/A Is furthe	ne Number unknown, co		eeded	about the w	N/A for treatment.				

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2.12	Other key assumptions related to storage, inventory, and generation information:											
	None											
				3.0 WAS	STE MINIMI	IZATION						
3.1	Has a waste minimization assessment been completed for this stream?											
		Yes	×	No								
	If yes,	provide date asses	ssment conducted	d:		N/A						
	If yes,	provide document	t number or othe	r identifica	tion:							
	N/A	N/A										
	If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:											
	See section 3.2 below.											
3.2	Provid	e details of curre	nt and proposed	l methods	far minimizina	g the generation of this						
	stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials): PFP routinely evaluates the use of mercury to ensure that it is appropriate and necessary. Mercury with no											
						vaste and not reorded.						
3.3	Waste minimization schedule											
	3.3.1 Reduction achieved during calendar year 2002 (volume or mass)											
		0.000	m3									
	3.3.2	Projected futu	re waste volum	e reduction	18							
		Year	m³	and/or	kg							
		2003	0.000									
		2004	0.000]								
		2005	0.000	1 :	1							
		2006	0.000									
		2007	0.000									
		Total	0.000]								
	3.3.3	Bases and assu	amptions used in	n above est	imates:							

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program which looks for further opportunities to reduce waste production or produce waste in a less hazardous form.

1.0 WASTE STREAM IDENTIFICATION

1.1 Treatability Group	Name:
------------------------	-------

MLLW-07 - RH and Large Container

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

WSRds: DBL, HRW, 450, 550, 650. This waste stream is comprised of RH-MLLW with various chemical (organics, inorganics, metals) and physical (particulates, debris, sludges, etc.) characteristics. Many different regulated constituents could be represented in this waste stream; however, the primary waste type is heterogeneous debris from the SST/DST Systems operations. This waste stream also contains waste in oversized containers, not typically suited for commercial treatment, that will be treated using the M-91 MLLW capability.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

Total volume (cubic meters):

3.1

80.624

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].

Year	m³	and/or
2003	176.750	
2004	338.150	
2005	305.150	
2006	279.150	
2007	279.150	
Total	1,378,350	1

)T	kg	
		L

3.0 WASTE STREAM CHARACTERIZATION

Radiole	ogical Characteristics			
3.1.1	Mixed waste type:	High-level	Transuranic	Low-level
3.1.2	Handling (as package cor	tents would need to be han	dled during treatment):	
	Contact-handled	Remote-handled		
3.1.3	•	il characteristics (e.g., more d by radiation, confidence l	specific information on content (evel):	nt,
	therefore, RH waste packa determine if a CWC waste	ges in CWC are actually inpupackage contains RH waste,	, the radionuclide, dose rate,	;
	physical form and generate lead a reviewer to believe		eviewed for clues that might	

	al Form				
3.2.1	Physical form of the wast	e:			
	⊠ Solid □] Liquid	Semi-solid		Debris
	Other (Describe in co	mments.)			
3.2.2	Comments on physical for	rm:			
	Waste received under the V level. Waste received prior confidence level. For this of prior to being sent to treath determined that some of the description, it will be reass MLLW-03, etc.).	r to the implementation of older waste, the matrix cluent and disposal. If during the waste does not meet the	of the WSS has a low haracterization will be ling the verification posts MLLW-07 waste st	to medium e verified rocess, it is ream	
Regulate	ed constituents and wastewa	iter/non-wastewater cat	egory		
3.3.1	Wastewater/non-wastewa	ter under RCRA	•		
	☐ Wastewater	Non-wastewate	er 🗀 iink	nown	
		M 11011-Wastewatt	🗀 🗀	ilowii	
3.3.2	Regulated constituents tak	le including treatment	requirements and U	HCs. if appli	cable.
 .		•		,	LDR Treatment
EPA State		LDR Sub-	Concentration		Concentration
Numb		Category*	(Typical or Range)**	Basis	Standard or Technology Code
D001	lgnitable	Ingnitable charac.	***	***	DEACT & meet 40
D002	Corrosive		1		
	Conside	Corrosiv charac.	***	***	CFR 268.48 DEACT & meet 40
D006	TC-Cadmium	Corrosiv charac.	***	***	CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/l TCLP &
D006					CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/1 TCLP & meet 40 CFR 268.48 0.60 mg/1 TCLP &
	TC-Cadmium	Cadmium charac	***	李章和	CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/l TCLP & meet 40 CFR 268.48 0.60 mg/l TCLP & meet 40 CFR 268.48 0.75 mg/l TCLP &
D007	TC-Cadmium TC-Chromium	Cadmium charac	***	***	CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/l TCLP & meet 40 CFR 268.48 0.60 mg/l TCLP & meet 40 CFR 268.48 0.75 mg/l TCLP & meet 40 CFR 268.48 0.14 mg/l TCLP &
D007	TC-Cadmium TC-Chromium TC-Lead	N/A Lead charac. N/A	***	***	CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/l TCLP & meet 40 CFR 268.48 0.60 mg/l TCLP & meet 40 CFR 268.48 0.75 mg/l TCLP & meet 40 CFR 268.48 0.14 mg/l TCLP & meet 40 CFR 268.48
D007 D008 D011	TC-Cadmium TC-Chromium TC-Lead TC-Silver	Cadmium charac N/A Lead charac.	***	***	CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/l TCLP & meet 40 CFR 268.48 0.60 mg/l TCLP & meet 40 CFR 268.48 0.75 mg/l TCLP & meet 40 CFR 268.48 0.14 mg/l TCLP & CFR 268.48
D007 D008 D011 F001	TC-Cadmium TC-Chromium TC-Lead TC-Silver 1,1,1-Trichlorethane	Cadmium charac N/A Lead charac. N/A Spent Solvent	***	***	CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/I TCLP & meet 40 CFR 268.48 0.60 mg/I TCLP & meet 40 CFR 268.48 0.75 mg/I TCLP & meet 40 CFR 268.48 0.14 mg/I TCLP & meet 40 CFR 268.48 6.0 mg/kg 30 mg/kg
D007 D008 D011 F001 F002	TC-Cadmium TC-Chromium TC-Lead TC-Silver 1,1,1-Trichlorethane Methylene Chloride	Cadmium charac N/A Lead charac. N/A Spent Solvent Spent Solvent	***	***	CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/l TCLP & meet 40 CFR 268.48 0.60 mg/l TCLP & meet 40 CFR 268.48 0.75 mg/l TCLP & meet 40 CFR 268.48 0.14 mg/l TCLP & meet 40 CFR 268.48 0.14 mg/l TCLP & meet 40 CFR 268.48 6.0 mg/kg 30 mg/kg 160 mg/kg
D007 D008 D011 F001 F002 F003	TC-Cadmium TC-Chromium TC-Lead TC-Silver 1,1,1-Trichlorethane Methylene Chloride Acetone & Hexone	Cadmium charac N/A Lead charac. N/A Spent Solvent Spent Solvent Spent Solvent	***	***	CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/l TCLP & meet 40 CFR 268.48 0.60 mg/l TCLP & meet 40 CFR 268.48 0.75 mg/l TCLP & meet 40 CFR 268.48 0.14 mg/l TCLP & meet 40 CFR 268.48 0.14 mg/l TCLP & meet 40 CFR 268.48 6.0 mg/kg 30 mg/kg 160 mg/kg 5.6 mg/kg
D007 D008 D011 F001 F002 F003 F004	TC-Cadmium TC-Chromium TC-Lead TC-Silver 1,1,1-Trichlorethane Methylene Chloride Acetone & Hexone o-Cresol & p-Cresol	Cadmium charac N/A Lead charac. N/A Spent Solvent Spent Solvent Spent Solvent Spent Solvent	***	***	CFR 268.48 DEACT & meet 40 CFR 268.48 0.11 mg/l TCLP & meet 40 CFR 268.48 0.60 mg/l TCLP & meet 40 CFR 268.48 0.75 mg/l TCLP & meet 40 CFR 268.48 0.14 mg/l TCLP & meet 40 CFR 268.48 0.14 mg/l TCLP & meet 40 CFR 268.48 6.0 mg/kg 30 mg/kg 160 mg/kg

N/A

N/A

WT01

WT02

Toxic, EHW

Toxic, DW

N/A

N/A

NONE (1)

			A if no existing so ber (40 CFR 268		uately	describes this	waste, or if the	ге аге п	o defined
•• If wa	iste is not consi	stent in c	oncentration, this	s may not apply.	Descr	ribed in Section	on 3.3.6.		
*** The	concentration	varies an	d is based on pro	cess knowledge	and/or	analytical da	ta.		
	ted extremely hance with RCW		wastes may be li 50(2).	and-disposed in V	Washii	ngton State in	DOE facilities	in	
UHCs to		l on a per	package basis d	uring waste "up-	gradin	g" and/or who	en the waste is s	sent for	
3.3.3	-		bers from Sec DR treatment		vhich	the waste s	tream already	Y	
	List:								
	☐ No LD	R treatn	nent required (e	.g. TRUM was	ite des	tined for W	IPP, exclusion	1, etc.)	
	None (i		onstituents/was	te numbers of t	this w	aste stream	still require		
3.3.4	Does this wa	aste str	am contain PC	CBs?					
	☐ Yes		×	No			Unknown		
	If no or unk	nown, s	kip to Section 3	.3.5.					
	3.3.4.1	ls wa	iste stream sub	ject to TSCA	regul	ations for P	CBs?		
			Yes			No			Unknown
	3.3.4.2	Indi	ate the PCB c	oncentration r	ange.				
			< 50 ppm			≥ 50 ppm			Unknown
3.3.5	What is the	confide	nce level for t	ne regulated co	onstiti	uents?			
	☐ Low		X	Medium			High		
3.3.6	Comments	on regu	lated constitue	nts and waste	water	/non-waste	water categor	y:	
	waste stream requirement proper waste storage and the dangeror changes to t characteriza	n upgrad s, it will e stream treatme us waste he dang tion req	indergo charact ling program. be assigned to Portions of to int. However, the regulations im- erous waste regulariements onto th a characteris	Once the waste the appropriat he waste have he WSS came is aposed at that ti- gulations since the generator,	e meet e WS! met thinto ef ime. Then then then then then the	s all the upg S WSRd assone rigors of the Mect in 1995 There have the hat impose a	grading sociated with the WSS for we and was base been several additional tion of UHCs	he vaste ed on	

4.0 WASTE STREAM TREATMENT

4.1	Is this waste stream currentl	y being treated?			
	☐ Yes	⊠ No			
	If yes, provide details:	N/A			
4.2	Planned treatment: Check to meet applicable regulation			-	stream
	No treatment required (sl	cip to Section 5.0)			
	Treating or plan to treat of	on site			
	Treating or plan to treat of	off site			
	Treatment options still be	eing assessed			
4.3	Planned treatment method, i	acility, extent of tre	atment capacity av	ailable:	
	Treatment options are being a M-91-10.	ddressed as part of th	e Project Managem	ent Plan specified in TPA M	ilestone
4.4	Treatment schedule informa	tion:			
	Treatment is anticipated to be	performed as necess	ary to support the re	sults of the M-091 TPA disp	ute resolutio
4.5	Applicable Tri-Party Agreen	nent treatment mile	stone numbers (inc	luding permitting):	
	Milestone Number		Due Date		
	M-091-10		06/30/1999		
	M-091-15		06/30/2008		
	Description Tel Brest Ave			<u>_</u> _	
4.6	Proposed new Tri-Party Agr See Section 4.4.	eement treatment n	illestones:		
4.7	If treating or planning to tre and/or selecting the treatmen		ll waste minimizati	on be addressed in develop	ing
	☐ Yes	☐ No		Unknown	
	If yes, describe: N/A	based on 4.2.			
4.8	List or describe treatability oneeded for treatment or aire	• • •	s, rulemaking petit	ions, and case-by-case exem	ptions
	None.				
4.9	Key Assumptions:				
	None.				

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

Subject waste ultimately will be disposed of in mixed waste trenches located on the Hanford Site.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Plant name	222-S I	aboratory Complex	Waste Stream:	MLLW-07, Shielded Debris
	Treatabilitly Gro	oup Name:	MLLW-07 - RH	and Large Container	
1.2	Applicable profil	e number(s) for t	his waste stream:		
	WMFH-627-0003	3-Current Revision	; 2228-647-0001-00; 222	2S-650-0001-00.	
1.3	Waste stream so	urce information			
		l description of the	e waste (e.g., spill clean	-up waste, discarded lab m	aterials,
	Debris vetc.).	waste generated fro	om laboratory operations	(e.g., analytical procedures,	hot cell, maintenance,
	1.3.2 History	of how and wher	e the waste was/is gener	ated:	
		ste is generated at VHF, etc.	the 222-S Laboratory fro	om operations including anal	lytical procedures, hot cell,
	1.3.3 Source	of the regulated c	onstituents:		
	Laborate	ory receives mostl	y tank Farms samples res	ples may result in contamina sulting in all waste designati g., ETF, ERDF, K-Basins, e	ng as F001-F005. Samples
	1.3.4 Source	of the information	ı (e.g., analytical data, p	rocess knowledge, docume	nt number, etc.)
	Waste C	Contents Inventory	Sheets, MSDSs, Waste S	Stream Fact Sheets.	
	1.3.5 Addition	nal notes:			
	None.				
	2.0 WAST	E STREAM ST	ORAGE, INVENTO	RY, AND GENERATIO	N INFORMATION
	(NOTE: For was	te in satellite accur	nulation areas and 90-da	y accumulation areas, skip to	o Section 2.6.)
2.1	Current storage	nethod			
	Container (pad)	Container (covered) Contain	ner (retrievably buried)
	☐ Tank	(DST	SST	
	Other (expla	ain):		_	
	2.1.1 How wa	s the waste mana	ged prior to storage?		
	Waste was manage (DOE/RL-91-27 R		Facility Dangerous Was	te Permit Application, 222-S	S Laboratory Complex
	2.1.2 Timefra	me when waste w	as placed to storage?		
	12/1998-12/2002.		-		

2.2	Storage invent	ory locations:						
	Building/Room	Number		Nu	mber of Containers/	Tanks		
	HS-0083A			2				
	HS-0083B			1				
2.3	Current stored	l inventory for t	his strea	m.				
	Total volume (cubic meters):		0.	624			
	Date of invento	ry values:		01/06/2003				
	Comments on v	waste inventory:						
	This data was g	generated from S'	WITS sp	ecific to 222	-S Laboratory.			
2.4	Is storage capa	city at this locat	tion pote	ntially an is	sue for this waste	stream?		
	Yes		×	No				
	If yes, what is t	he total estimate	d storage	capacity?	1	N/A		
	When is this ca	pacity expected	to be rea	ched?	1	N/A		
	Bases and assu	mptions used:						
	N/A							
2.5	Planned storag	ge areas for this	waste:					
	Current	Location	X	CWC			DST	
	Other A	rea(s) (list):						
	☐ None		•					
2.6	Estimated gen		on by cal	lendar year	(includes waste it	n satellite :	and 90-day	
	Year	m ³	and/or	kg				
	2003	0.150						
	2004	0.150						
	2005	0.150	İ		_			
	2006	0.150						
	2007	0.150						
	Total	0.750	J					
2.7	DOE Storage	Compliance Ass	essment	information):			
	Assessn	nent has been cor	npleted.					
	Document Nu	mber				Date		
	A&E-SEC-01	018				12/03/200)1	

		ssessn	nent has been scho	eduled.	Sched	uled date:			
		Other. E	xplain:						
2.8	Applica	ble Tr	i-Party Agreeme	nt mile:	stones	related to s	torage at this lo	cation:	
		ne Nun				Due Da	_		
	M-020	-22				12/31/1	1991		
2.9			been any non-po ironment?	ermitte	d, una	uthorized r	elease of this wa	iste stre	am from this storage
	□ Y	es		\boxtimes	No				
	If yes, s	ummar	ize releases and q	uantitie	s and p	orovide date	:		
	N/A								
2.10	Are the	re any	plans to submit r	equest	s for v	ariances or	other exemption	ns relat	ed to storage?
		es		\mathbf{X}	No		-		·
	If yes, e	xplain:	N/A						
2.11	Charact	erizati	on						
	2.11.1	Is fu	rther characteriz	ation n	eeded	about the w	vaste prior to ac	ceptano	ce for storage?
			Yes		X	No			Unknown at this time
		Mila	estone Number				Due Date		
		N/A			· · · · · · · · · · · · · · · · · · ·		N/A		
			1				<u> </u>		_1
			or unknown, cor	nment	on char	acterization	for storage.		
		N/A							
	2.11.2	ls fui		ation n			aste prior to ac	-	ce for treatment?
			Yes		X	No			Unknown at this time
		Mile	estone Number				Due Date		
		N/A				,	N/A		
		If ves	or unknown, con	oment c	n char	acterization	for treatment		
		N/A			,,, ona		TOT LIVERITORS.		
	2.11.3		ther characteriz	ation n	eeded :	nhout the w	aste nrior to ac	centano	e for disposal?
			Yes		×	No	ance prior to ac-	•	Unknown at this time
		_			(F-3)	•			
		Mile	stone Number				Due Date		_
		N/A					N/A		_

		If yes or unkno	wn, comment on	character	zation for dispo	osal.
		N/A				
2.12	Other l	key assumptions I	related to storag	e, invento	ry, and generat	tion information:
	None.					
				3.0 WAS	TE MINIMI	ZATION
3.1	Has a v	waste minimizatio	on assessment be	en compl	eted for this str	ream?
	⊠ '	Yes		No		
	If yes,	provide date asses	sment conducted	:		9/2000
	If yes,	provide document	number or other	identifica	tion:	
	Operati	ing and analytical	procedures at the	222-S La	boratory Comp	lex.
	If no, p	rovide date assess	ment will be con	npleted, or	if waste stream	is no longer generated, then indicate N/A:
3.2	stream volume materi 222-S j	(e.g., process cha e through segrega als): personnel optimize	inges to reduce of the street	or elimina nce of con during wa	te LDR waste, nmingling, subs	the generation of this methods to reduce stitution of less-toxic to minimize waste generation through proper tive technology which allows them to minimize
	more w	vaste.				
3.3	Waste	minimization sch	edule			
	3.3.1	Reduction ach	ieved during cal	lendar yes	ır 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	re waste volume	e reductio	ns	
		Year	m³	and/or	kg	
		2003	0.000	ļ		
		2004	0.000	1		
		2005	0.000			
		2006	0.000	1		
		2007	0.000			
		Total	0.000		<u> </u>	

3.3.3 Bases and assumptions used in above estimates:

222-S has no waste minimization goals for this waste stream. However, the analytical process generating this stream is continuously evaluated for waste minimization opportunities.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	325 HWTU		. Waste Stre	am:	MLLW-07 RH					
	Treata	bilitiy Group Na	me:	MLLW-07 - RH and	Large Containe	:T						
1.2	Applic	able profile num	ber(s) for this w	aste stream:								
				llowing profiles: PNNL 0, PNNL-647-0005-00.		NNL-627	-0007-00,					
1.3	Waste	stream source in	formation									
	1.3.1	General descr	-	ste (e.g., spill clean-up	waste, discarde	d lab mat	erials,					
		Subject waste	is generated fror	n PNNL laboratory and	hot cell operation	ons.						
	1.3.2	History of hov	v and where the	waste was/is generate	d:							
				e operations at PNNL.								
	1.3.3	Source of the	regulated consti	tuents:								
		This waste stre constituents.	am consists of d	ebris contaminated with	h inorganic and	organic reg	gulated dangerous wast					
	1.3.4	Source of the i	nformation (e.g	,, analytical data, proc	ess knowledge,	document	number, etc.)					
		Wastes are cha	racterized as spe	ecified in PNNL Waste	Stream Profiles.							
	1.3.5	Additional not	es:									
		Wastes are shie	elded to meet CI	I dose limits for CWC	before shipping.							
	2	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION										
	(NOTE	: For waste in sa	tellite accumula	tion areas and 90-day a	ccumulation are	as, skip to	Section 2.6.)					
2.1	Curren	t storage method	1	•								
		Container (pad)	X	Container (covered)		Containe	r (retrievably buried)					
		Tank		DST		SST						
		Other (explain):										
	2.1.1	How was the w	vaste managed j	orior to storage?								
		ste was managed i age area.	n 90 day accum	ulation areas or SAAs v	within the hot ce	lls prior to	being transferred to					
	2.1.2	Timeframe wh	en waste was p	laced to storage?								
	There a	re currently no wa	iste items that m	atch this waste stream :	stored in the pen	mitted area	is at the 325 building.					

Building/Room	Number		Number of	Containers/Tanks
			<u> </u>	
Current stored	inventory for t	his strea	m.	
Total volume (c	cubic meters):		0.000	
Date of invento	ry values:		01/10/2003	
Comments on v	vaste inventory:			
None.		•		
Is storage capa	city at this loca	tion pote	entially an issue for	this waste stream?
Yes		X	No	
If yes, what is t	he total estimate	d storage	e capacity?	N/A
When is this ca	pacity expected	to be rea	ched?	N/A
Bases and assur	mptions used:			
N/A				
Planned storag	ge areas for this	waste:		
	· • • !		CWC	r dst
Current !	Location	☒	CWC	
		×	CWC	
	rea(s) (list):	×	CWC	
Other A	rea(s) (list):			L l
Other A	rea(s) (list): eration projecti			les waste in satellite and 90-day
Other An None Estimated generation	rea(s) (list): eration projecti		lendar year (includ	
Other An None Estimated geneaccumulation	rea(s) (list): eration projecti areas): m ³ 28.600	on by ca	lendar year (includ	₩
Other An None Estimated generaccumulation ar Year 2003 2004	rea(s) (list): eration projecti areas): m ³ 28.600 3.000	on by ca	lendar year (includ	
Other An None Estimated generaccumulation: Year 2003 2004 2005	rea(s) (list): eration projecti areas): m ³ 28.600 3.000 3.000	on by ca	lendar year (includ	
Other An None Estimated generaccumulation at Year 2003 2004 2005 2006	rea(s) (list): eration projecti areas): m ³ 28.600 3.000 3.000 3.000	on by ca	lendar year (includ	L
Other An None Estimated generaccumulation: Year 2003 2004 2005 2006 2007	rea(s) (list): eration projecti areas): m³ 28.600 3.000 3.000 3.000	on by ca	lendar year (includ	L
Other An None Estimated generaccumulation: Year 2003 2004 2005 2006 2007 Total	rea(s) (list): eration projecti areas): m³ 28.600 3.000 3.000 3.000 40.600	on by ca	kg	
Other An None Estimated generaccumulation at 2003 2004 2005 2006 2007 Total DOE Storage	rea(s) (list): eration projecti areas): m³ 28.600 3.000 3.000 3.000 40.600 Compliance Ass	and/or	kg kg	
Other An None Estimated generaccumulation: Year 2003 2004 2005 2006 2007 Total DOE Storage	rea(s) (list): eration projecti areas): m³ 28.600 3.000 3.000 3.000 40.600	and/or	kg kg	
Other An None Estimated generaccumulation at 2003 2004 2005 2006 2007 Total DOE Storage	rea(s) (list): eration projecti areas): m³ 28.600 3.000 3.000 3.000 40.600 Compliance Assembly that been contained to the contained to	and/or	kg kg	

	one Num				Due I			
M-020	-20				06/30	/1992		
		been any non- ronment?	permitte	d, una	uthorized	release of this w	aste stre	eam from this storage
י 🗆	es		\boxtimes	No				
If yes, s	ummari	ze releases and	quantitie	s and p	orovide dat	e:		
N/A								
Are the	re any p	lans to submit	request	s for v	ariances o	r other exemptio	ns relat	ed to storage?
_ \	'es		\boxtimes	No				
If yes, e	xplain:	N/A						
Charac	terizatio	n						
2.11.1	Is fur	ther characteri	zation n	eeded	about the	waste prior to ac	ceptan	ce for storage?
		Yes		X	No			Unknown at this time
	Mila	stone Number				Due Dete	_	
	N/A	stone Number				Due Date N/A		7
								<u>.</u>
		or unknown, co	mment o	on char	acterizatio	n for storage.		
	N/A							
2.11.2	Is furt		zation n	eeded	about the	waste prior to ac	ceptan	ce for treatment?
		Yes		X	No			Unknown at this time
	Miles	stone Number				Due Date		
	N/A					N/A		٦
	16							
		or unknown, co	mment (n cnar	acterizatio	n for treatment.		
	N/A							
	is turt		zation n			waste prior to ac	-	_
2.11.3		Yes		\boxtimes	No			Unknown at this time
2.11.3								
2.11.3	Miles	stone Number				Due Date		

2.12 Other key assumptions related to storage, inventory, and generation information:

The inventory information is for what is currently in storage in the specified HWTU location(s). This includes current generation and/or M-091 wastes. The projections in section 2.6 of this data sheet include current generation and M-091 volumes.

3.0 WASTE MINIMIZATION

3.2	If yes, p If yes, p N/A If no, p Assessr Provide stream volume materia	nent date to be de e details of currer (e.g., process cha through segrega als):	mumber or other ment will be contermined. Int and proposed anges to reduce	r identifica mpleted, o d methods or elimina	r if waste strear for minimizin ite LDR waste,	N/A m is no longer generated, then indicate N/A: g the generation of this , methods to reduce estitution of less-toxic					
3.2	If yes, p N/A If no, pr Assessr Provide stream volume materia	provide document rovide date assess ment date to be de e details of curren (e.g., process cha e through segrega als):	mumber or other ment will be contermined. Int and proposed anges to reduce	r identifica mpleted, o d methods or elimina	r if waste strear for minimizin ite LDR waste,	m is no longer generated, then indicate N/A: g the generation of this , methods to reduce					
3.2	N/A If no, provide stream volume materia	rovide date assess ment date to be de e details of currer (e.g., process cha e through segrega als):	sment will be constermined. In and proposed anges to reduce	mpleted, o i methods or elimins	r if waste strear for minimizin ite LDR waste,	g the generation of this , methods to reduce					
3.2	If no, provide stream volume materia	nent date to be de e details of currer (e.g., process cha through segrega als):	etermined. nt and proposed anges to reduce	i methods or elimins	for minimizin tte LDR waste,	g the generation of this , methods to reduce					
3.2	Assessi Provide stream volume materia	nent date to be de e details of currer (e.g., process cha through segrega als):	etermined. nt and proposed anges to reduce	i methods or elimins	for minimizin tte LDR waste,	g the generation of this , methods to reduce					
3.2	Provide stream volume materia	e details of currer (e.g., process cha through segrega als):	nt and proposed	or elimina	ite LDR waste,	, methods to reduce					
3.2	stream volume materia	(e.g., process cha through segrega als):	inges to reduce	or elimina	ite LDR waste,	, methods to reduce					
	can be t		s. The Radioact	ive Waste		less reagent volume or a less hazardous reagent oup routinely assess the possibility of					
3.3	Waste minimization schedule										
	3.3.1 Reduction achieved during calendar year 2002 (volume or mass)										
	0.000 m3										
	3.3.2 Projected future waste volume reductions										
		Year	m ³	and/or	kg						
		2003	0.000								
		2004	0.000								
		2005	0.000								
		2006	0.000	_							
		2007	0.000								

3.3.3 Bases and assumptions used in above estimates:

0.000

Total

Projects generating wastes usually have strict requirements for process outcomes. Hence, it is not possible to project specific volume reductions. As noted in Section 3.2, each project generating this waste type is reviewed to assure that waste volumes generated are minimized.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	CWC		Waste Stre	am:	MLLW-07					
	Tresta	bilitiy Group Na	ame:	MLLW-07 - RH and Large Container								
1.2	Applic	Applicable profile number(s) for this waste stream:										
	N/A											
1.3	Waste stream source information											
	1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):											
		eneous debris from th										
	1.3.2 History of how and where the waste was/is generated:											
		The waste was	by the Navy.									
	1.3.3	Source of the regulated constituents:										
		See 1.3.1 and 1.3.2.										
	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)											
		Analytical dat										
	1.3.5	5 Additional notes:										
	Waste is shielded to meet contact handled dose limits for CWC.											
	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION											
	(NOTE	: For waste in s	atellite accumula	ation areas and 90-day a	ccumulation are	as, skip to S	ection 2.6.)					
2.1	Current storage method											
	Container (pad)			Container (covered)		Container	(retrievably buried)					
	1	Γank		DST		SST						
	Other (explain):											
	2.1.1 How was the waste managed prior to storage?											
	Accum	Accumulated and packaged by waste generators prior to storage at CWC.										
	2.1.2	2.1.2 Timeframe when waste was placed to storage?										
	Waste storage in CWC began in 1988 and continues.											

2	Storage invent	ory locations:								
	Building/Room	Number		Numbe	r of Containers/Tanks					
	cwc			28						
.3	Current stored	inventory for t	his strear	m.						
	Total volume (c	cubic meters):		80.000	80.000					
	Date of invento	ry values:		01/06/2003						
	Comments on waste inventory:									
	Based on inven	tory residing at t	he CWC	as reported in th	ne SWITS for WSRds 450, 550, 650, DBL, and HRW					
.4	Is storage capacity at this location potentially an issue for this waste stream?									
	☐ Yes		×	No						
	If yes, what is t	he total estimate	d storage	capacity? N/A						
	When is this ca	pacity expected	to be read	hed?	N/A					
	Bases and assumptions used:									
	No issues with CWC storage based on 20 year waste generation forecast.									
.5	Planned storas	ge areas for this	waste:							
	•	Location	×	CWC	□ DST					
	Other Area(s) (list):									
	None									
.6	Estimated generation projection by calendar year (includes waste in satellite and 90-day									
	accumulation areas):									
	Year	m ³ and/		kg	7					
	2003	0.000								
	2004	0.000		<u></u>	-					
	2005	0.000			1					
	2006	0.000	1		-					
	2007	0.000			=					
	Total	0.000	1		1					
.7	DOE Storage Compliance Assessment information:									
	Assessment has been completed.									
	Document Nur	nher			Date					
	A&E-SEC-02-				01/21/2002					

	A	Assessment has been scheduled. Scheduled date:								
		Other. E	xplain:							
2.8	Applica	ble Tri	-Party Agreemen	t miles	tones	related to stor	age at this lo	cation:		
	Milesto	Milestone Number Due Date								
	M-020	-12				10/31/199	1			
2.9	Has there ever been any non-permitted, unauthoriz unit to the environment?						ase of this wa	ste stre	am from this storage	
	□ Y	es		X	No					
	If yes, so	ummari	ze releases and qu	antitie	s and p	rovide date:				
	N/A									
2.10	Are the	re any j	plans to submit re	quests	for va	riances or otl	her exemption	ıs relate	ed to storage?	
	□ Y	es		\boxtimes	No					
	If yes, e	xplain:	N/A							
2.11	Charact	erizatio	on							
	2.11.1 Is further characterization needed about the waste prior to acceptance for stors							e for storage?		
			Yes		X	No			Unknown at this time	
		Mile	stone Number				Due Date			
		N/A		;			N/A]	
		If yes or unknown, comment		ment o	n char	acterization fo	r storage.		_	
		N/A					-			
	2.11.2 Is further charac		ther characteriza	zation needed about the waste			te prior to acc	e prior to acceptance for treatmen		
			Yes		\boxtimes	No			Jnknown at this time	
		Mila	stone Number				Due Date			
		N/A			••••		N/A		7	
		If was	If we or unknown comment on characterization for the track							
	If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for the second se									
								a fan dian aa 19		
	2.11.3	×	Yes	(1011 116	reueu :	No	te prior to acc	•	Inknown at this time	
			* **			140		΄,	Singlewa at alls time	
		Mile	stone Number				Due Date		_	
		N/A					N/A			

If yes or unknown, comment on characterization for disposal.

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment if the residues are MLLW. No commitment is necessary for the characterization needs on this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:												
	None.											
				3.0 WAS	STE MINIMI	ZATION						
3.1	Has a waste minimization assessment been completed for this stream?											
	Y	r'es	×	No								
	If yes, provide date assessment conducted: N/A											
	If yes, p	If yes, provide document number or other identification:										
	N/A											
	If no, p	If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:										
	None p	None planned - waste not generated at CWC.										
3.2	stream volume materia	(e.g., process cha through segregat als):	details of current and proposed methods for minimizing the generation of this (e.g., process changes to reduce or eliminate LDR waste, methods to reduce through segregation and avoidance of commingling, substitution of less-toxic ls): ctivities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce the content of the content									
		olumes placed into										
3.3	Waste	Waste minimization schedule										
	3.3.1	.1 Reduction achieved during calendar year 2002 (volume or mass)										
	0.000 m3											
	3.3.2 Projected future waste volume reductions											
		Year	m ³	and/or	kg							
		2003	0.000]								
		2004	0.000	4								
		2005	0.000	_								
		2006	0.000	1								
		2007	0.000	1								

3.3.3 Bases and assumptions used in above estimates:

Total

There is no projected generation by CWC.

0.000

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.2 Applicable profile number(s) for this waste stream: 450 1.3 Waste stream source information 1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste): Savanah River sample returns. 1.3.2 History of how and where the waste was/is generated: Waste originally came from Tank Farms. 1.3.3 Source of the regulated constituents: See 1.3.1 and 1.3.2. 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION (NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)
1.3 Waste stream source information 1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste): Savanah River sample returns. 1.3.2 History of how and where the waste was/is generated: Waste originally came from Tank Farms. 1.3.3 Source of the regulated constituents: See 1.3.1 and 1.3.2. 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
 1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste): Savanah River sample returns. 1.3.2 History of how and where the waste was/is generated: Waste originally came from Tank Farms. 1.3.3 Source of the regulated constituents: See 1.3.1 and 1.3.2. 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
 1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste): Savanah River sample returns. 1.3.2 History of how and where the waste was/is generated: Waste originally came from Tank Farms. 1.3.3 Source of the regulated constituents: See 1.3.1 and 1.3.2. 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
maintenance waste): Savanah River sample returns. 1.3.2 History of how and where the waste was/is generated: Waste originally came from Tank Farms. 1.3.3 Source of the regulated constituents: See 1.3.1 and 1.3.2. 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
 1.3.2 History of how and where the waste was/is generated: Waste originally came from Tank Farms. 1.3.3 Source of the regulated constituents: See 1.3.1 and 1.3.2. 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
Waste originally came from Tank Farms. 1.3.3 Source of the regulated constituents: See 1.3.1 and 1.3.2. 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
 1.3.3 Source of the regulated constituents: See 1.3.1 and 1.3.2. 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
See 1.3.1 and 1.3.2. 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
 1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.) Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
Process knowledge and analytical data. 1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
1.3.5 Additional notes: None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
None. 2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION
(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)
2.1 Current storage method
Tank DST SST
Other (explain):
2.1.1 How was the waste managed prior to storage?
Generated by Tank Farms.
2.1.2 Timeframe when waste was placed to storage?
2000
2.2 Storage inventory locations:
Building/Room Number Number of Containers/Tanks
T Plant Complex 4 containers (125 ml each)

0.000	Total volume (cubic meters): 0.000 Date of inventory values: 12/31/2002 Comments on waste inventory:	2.3	Current stored in	entory for this	s stream.					
002			Total volume (cubi	c meters):		0.000				
	Comments on waste inventory:		Date of inventory	alues:	12/31/20	02				
	Conditions on waste inventory.		Comments on was	e inventory:						
	None.		None.							
n issue for this waste stream?		2.4	Is storage capacity	at this locatio	n potentially an	issue for this waste	stream?			
	2.4 Is storage capacity at this location potentially an issue for this waste stream?		☐ Yes		⊠ No					
/? N/A			If yes, what is the	otal estimated s	storage capacity?	N	N/A			
27/4	☐ Yes ဩ No		When is this capac	ity expected to	be reached?	N	I/A			
N/A	☐ Yes ☒ No		Bases and assumpt	ions used:						
N/A	Yes No If yes, what is the total estimated storage capacity? When is this capacity expected to be reached? N/A		•							
N/A	Yes No If yes, what is the total estimated storage capacity? N/A	2.5	Planned storage a	reas for this w	aste:					
N/A	Yes No If yes, what is the total estimated storage capacity? When is this capacity expected to be reached? N/A Bases and assumptions used:		-				☐ DST			
	Yes No If yes, what is the total estimated storage capacity? When is this capacity expected to be reached? N/A Bases and assumptions used:		_	s) (list):	_					
	Yes No If yes, what is the total estimated storage capacity? When is this capacity expected to be reached? N/A Bases and assumptions used:		☐ None							
	Yes X No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: 2.5 Planned storage areas for this waste:	2.6	Estimated genera	tion projection	by calendar yea	ır (includes waste in	satellite and 90	-day		
□ DST	Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: 2.5 Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None		-		·					
□ DST	Yes X No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: 2.5 Planned storage areas for this waste:		Year	m ³	and/or kg					
☐ DST ear (includes waste in satellite and 90-day	Yes No N/A		2003	0.000						
☐ DST ear (includes waste in satellite and 90-day	Yes No N/A		2004	0.000						
☐ DST ear (includes waste in satellite and 90-day	Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: 2.5 Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None 2.6 Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas): Year m³ and/or kg 2003 0.000 2004 0.000				ļ-···-					
☐ DST ear (includes waste in satellite and 90-day	Yes No N/A		2007	0.000	_					
☐ DST ear (includes waste in satellite and 90-day	Yes No N/A		Total	0.000						
☐ DST ear (includes waste in satellite and 90-day	Yes No N/A	27	DOF Storage Co.	nnliance Asses	sment informati	on:				
DST ear (includes waste in satellite and 90-day	Yes No N/A	2.1		-		••••				
DST ear (includes waste in satellite and 90-day	Yes No N/A		Assessmen	inus been comp	, , , , , , , , , , , , , , , , , , ,					
DST ear (includes waste in satellite and 90-day	Yes No N/A		Document Number	r			Date	 ,		
DST ear (includes waste in satellite and 90-day g	Yes No		01-A&E-012				11/28/2000			
ear (includes waste in satellite and 90-day	Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: 2.5 Planned storage areas for this waste:		OI-AGE-012					_		
ear (includes waste in satellite and 90-day kg Date Date 11/28/2000	Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: 2.5 Planned storage areas for this waste:			t has been schee	duled. Scheduled	i date:	3rd quarter	I CY2005		
ear (includes waste in satellite and 90-day kg Date Date 11/28/2000	Yes No If yes, what is the total estimated storage capacity? N/A		Assessmen		duled. Scheduled	i date:	3rd quarter	I CY2005		
DST car (includes waste in satellite and 90-day sg discrete and 90-day attion: Date 11/28/2000 ed date: 3rd quarter CY2005	Yes No If yes, what is the total estimated storage capacity? N/A	3.0	Assessmen Other. Exp.	ain:			-	I CY2005		
DST car (includes waste in satellite and 90-day sg discrete and 90-day attion: Date 11/28/2000 ed date: 3rd quarter CY2005	Yes No N/A	2.8	Assessmen Other. Exp	ain: arty Agreemen		ited to storage at thi	-	I CY2005		
•	2.4 Is storage capacity at this location potentially an issue for this waste stream?	2.5	If yes, what is the two When is this capace Bases and assumption Planned storage a Current Loc Other Area(ity expected to ions used: reas for this wation	storage capacity? be reached? aste:		√A			
					12/31/20	02				
.002										
	Date of inventory values: 12/31/2002	2.3				0.000				
	Date of inventory values: 12/31/2002	2.3	Current stored in	entory for this	s stream.					

	unit to	the environment?						eam from this storage
		/es	\boxtimes	No				
	If yes, s	ummarize releases and	quantitie	s and	provide date:			
	N/A							
1	Are the	re any plans to submit	request	for v	ariances or o	ther exemption	s relat	ted to storage?
	□ '	'es	X	No				
	If yes, e	xplain: N/A						
	Charac	terization						
	2.11.1	Is further character	ization n	eeded	about the wa	ste prior to ac	eptan	ce for storage?
		☐ Yes		X	No			Unknown at this time
		Milestone Number				Duc Date		
		N/A				N/A		
		If yes or unknown, co	mment c	n cha	racterization f	or storage.		
		N/A						
	2.11.2	Is further characteri	zation n	eded	about the wa	ste prior to acc	eptano	ce for treatment?
		⋉ Yes			No			Unknown at this time
		Milestone Number				Due Date		٦
			mment o					
		If yes or unknown, co						
		Will be completed du	ring activ	cessar	y for the chara	nster of the cor acterization nee	stainer eds on t	to onsite TSD unit or offiste TSD
	2.11.3	Will be completed du facility. No commitm	ent is ne	cessar	y for the char	acterization nee	ds on t	his MLLW.
	2.11.3	Will be completed du	ent is ne	cessar	y for the char	acterization nee	ds on t eptanc	his MLLW.
	2.11.3	Will be completed du facility. No commitm	ent is ne	cessar	y for the chara	acterization nee	ds on t eptanc	this MLLW. re for disposal?
	2.11.3	Will be completed du facility. No commitm	ent is ne	cessar	y for the chara	acterization nee	ds on t eptanc	this MLLW. re for disposal?
	2.11.3	Will be completed du facility. No commitm Is further characteri Yes	ent is ne	cessar	y for the chara	acterization nee	ds on t eptanc	this MLLW. re for disposal?
	2.11.3	Will be completed du facility. No commitm Is further characteri Yes Milestone Number	zation ne	cessar eeded	y for the chara about the was	Due Date	ds on t eptanc	this MLLW. re for disposal?
	2.11.3	Will be completed du facility. No commitm Is further characterity Yes Milestone Number N/A If yes or unknown, co To meet concentration	ment is ne	n char	y for the chara about the was No acterization for	Due Date N/A or disposal. pplicable for the	eds on t	this MLLW. re for disposal?
		Will be completed du facility. No commitm Is further characteri Yes Milestone Number N/A If yes or unknown, co To meet concentration after treatment if the r	mment o	n char eatme	y for the chara about the was No acterization for nt standards a LW. No com	Due Date N/A Pplicable for the amitment is necessite.	eptance eptance eptance ereside	this MLLW. the for disposal? Unknown at this time ues, sampling will be required for the characterization needs on

3.0 WASTE MINIMIZATION

3.1	Has a v	vaste minimizatio	on assessment b	een compl	eted for this st	ream?							
	□ '	Yes	X	No									
	If yes, p	provide date asses	sment conducted	d:		N/A							
	If yes, provide document number or other identification:												
	N/A												
	If no, p	rovide date assess	sment will be con	mpleted, o	r if waste stream	n is no longer generated, then indicate N/A:							
	N/A												
3.2	stream	(e.g., process cha through segrega	anges to reduce	or elimina	ite LDR waste,	g the generation of this methods to reduce stitution of less-toxic							
		activities occur be are taken to minir			-	lex. During treatment/bulking sample returns,							
3.3	Waste minimization schedule												
	3.3.1	Reduction ach	ieved during ca	lendar ye	ar 2002 (volum	e or mass)							
		0.000	m3										
	3.3.2	Projected futu	re waste volum	e reductio	ns								
		Year	m ³	and/or	kg								
		2003	0.000										
		2004	0.000										
		2005	0.000	_									
		2006	0.000										
		2007	0.000										
		Total	0.000	1									

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation of this waste by T Plant Complex other than during treatment/bulking sample returns.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	Tank Farm	Facilities	Waste Stream:	MLLW-07 RH Mixed Waste
	Treata	bilitiy Group Na	ıme:	MLLW-07 - RH an	d Large Container	
1.2	Applic	able profile num	ber(s) for this	waste stream:		
	606, 80	00, 801.				
1.3	Waste	stream source in	formation			
	1.3.1	General descr maintenance		aste (e.g., spill clean-u	p waste, discarded lab m	aterials,
				uipment removed from ument trees, sluicers, ar	the DST System and SST nd water or air lances.	Γ System, which can
	1.3.2	History of hov	w and where th	e waste was/is generat	ed:	
		Equipment has	s been removed	from tanks in the DST	System and SST System.	
	1.3.3	Source of the	regulated cons	tituents:		
		Equipment ren constituents is		tank system have conta	cted tank waste. The sour	rce if hazardous
	1.3.4	Source of the	information (e.	g., analytical data, pro	cess knowledge, docume	ent number, etc.)
					pling plan are described i Attachment", HNF-SD-W	n "Tank Farm Solid Waste M-PLN-119, Rev. 01.
	1.3.5	Additional no	tes:			
		None.				
	2	2.0 WASTE ST	REAM STOR	RAGE, INVENTOR	Y, AND GENERATIO	N INFORMATION
	(NOTE	: For waste in sa	itellite accumula	ation areas and 90-day	accumulation areas, skip t	to Section 2.6.)
2.1	Curren	t storage method	i			
		Container (pad)		Container (covered)	Contai	ner (retrievably buried)
		Tank		DST	☐ SST	
		Other (explain):	N/A			
	2.1.1	How was the v	vaste managed	prior to storage?		
	N/A			-		
	2.1.2	Timeframe wl	ien waste was p	placed to storage?		
	N/A					

Storage invent	ory locations:								
Building/Room	Number		-	Number of Cor	ntainers/Tan	ks			
				<u> </u>					
Current stored	l inventory for t	his strea	m.	•					
Total volume (cubic meters):			0.000					
Date of invento	ory values:								
Comments on	waste inventory:								
Waste was acc	umulated in 90 d	ay accum	ulation	area.					
is storage cap	city at this loca	tion pote	entially a	n issue for thi	s waste str	eam?			
Yes			No						
If yes, what is	the total estimate	d storage	capacit	y?					
When is this ca	pacity expected	to be rea	ched?						
Bases and assu	mptions used:								
N/A									
Planned storag	ge areas for this	waste:							
	Location	П	CWC				DST		
			~ 11 ~			1 1			
		لسا	CWC			Ш	25.		
	rea(s) (list):	L.J	CWC			Ш	23.		
Other A None	rea(s) (list):			ear (includes v	waste in sa	tellite :		av	
Other A None	rea(s) (list): eration projection			ear (includes v	waste in sa	tellite a		ay	
Other A None Estimated gen	rea(s) (list): eration projection		lendar y	ear (includes v	waste in sa	tellite :		ay	
Other A None Estimated gen	rea(s) (list): eration projection areas):	on by cal	lendar y		waste in sa	tellite :		ay	
Other A None Estimated gen accumulation Year	rea(s) (list): eration projection areas): m ³ 148.000 335.000	on by cal	lendar y		waste in sa	tellite :		ay	
Other A None Estimated gen accumulation Year 2003 2004 2005	rea(s) (list): eration projection areas): m ³ 148.000 335.000 302.000	on by cal	lendar y		waste in sa	tellite :		ay	
Other A None Estimated gen accumulation Year 2003 2004 2005 2006	rea(s) (list): eration projection areas): m ³ 148.000 335.000 302.000 276.000	on by cal	lendar y		waste in sa	tellite :		ay	
Other A None Estimated gen accumulation Year 2003 2004 2005 2006 2007	rea(s) (list): eration projection areas): m ³ 148.000 335.000 302.000 276.000	on by cal	lendar y		waste in sa	tellite :		ay	
Other A None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total	rea(s) (list): eration projection areas): m³ 148.000 335.000 276.000 276.000 1,337.000	and/or	lendar y	¢g	waste in sa	tellite :		ay	
Other A None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total DOE Storage	rea(s) (list): eration projection areas): m³ 148.000 335.000 302.000 276.000 1,337.000 Compliance Assertation	and/or	lendar y	¢g	waste in sa	tellite :		ay	
Other A None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total DOE Storage	rea(s) (list): eration projection areas): m³ 148.000 335.000 276.000 276.000 1,337.000	and/or	lendar y	¢g	vaste in sa	tellite :		ay	
Other A None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total DOE Storage	rea(s) (list): eration projection areas): m³ 148.000 335.000 302.000 276.000 1,337.000 Compliance Assiment has been constant to the co	and/or	lendar y	¢g				ay	
Other A None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total DOE Storage	rea(s) (list): eration projection areas): m³ 148.000 335.000 302.000 276.000 1,337.000 Compliance Assiment has been constant to the co	and/or	lendar y	¢g		tellite :		ay	

Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment? Yes	Mileste	one Number			Due D	ate		
unit to the environment? Yes	N/A			···-	N/A			
If yes, summarize releases and quantities and provide date: N/A Are there any plans to submit requests for variances or other exemptions related to storage? Yes			permitte	d, una	uthorized ı	elease of this wa	ste stre	am from this storage
Are there any plans to submit requests for variances or other exemptions related to storage? Yes No If yes, explain: N/A Characterization 2.11.1 Is further characterization needed about the waste prior to acceptance for storage? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for storage. N/A 2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A If yes or unknown, comment on characterization for treatment. N/A Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time	Y	'es	X	No				
Are there any plans to submit requests for variances or other exemptions related to storage? Yes No If yes, explain: N/A Characterization 2.11.1 Is further characterization needed about the waste prior to acceptance for storage? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for storage. N/A 2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time	If yes, s	ummarize releases and	quantitie	s and p	rovide date	: :		
Yes No No No No No No No N	N/A							
If yes, explain: N/A Characterization 2.11.1 Is further characterization needed about the waste prior to acceptance for storage? Yes No Unknown at this time Milestone Number Due Date N/A N/A If yes or unknown, comment on characterization for storage. N/A 2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date	Are the	re any plans to submit	request	s for v	ariances or	other exemption	ıs relat	ed to storage?
2.11.1 Is further characterization needed about the waste prior to acceptance for storage? Yes No Unknown at this time. Milestone Number Due Date N/A If yes or unknown, comment on characterization for storage. N/A 2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time. Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time. Milestone Number Due Date	Y	es	\boxtimes	No				
2.11.1 Is further characterization needed about the waste prior to acceptance for storage? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for storage. N/A 2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time	If yes, e	xplain: N/A						
Yes No Unknown at this tine Milestone Number Due Date N/A N/A If yes or unknown, comment on characterization for storage. N/A Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A N/A If yes or unknown, comment on characterization for treatment. N/A Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date Yes No Unknown at this time Milestone Number Due Date Due Date Due Date Due Date Due Date Milestone Number Due Date Milestone Number Due Date Milestone Number Due Date Milestone Number Due Date Due Date Due Date Milestone Number Due Date Mile	Charac	terization						
Milestone Number Due Date	2.11.1	Is further character	ization n	eeded	about the v	vaste prior to ac	ceptano	ce for storage?
If yes or unknown, comment on characterization for storage. N/A 2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date		Yes		X	No			Unknown at this time
If yes or unknown, comment on characterization for storage. N/A 2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date		Milestone Number				Due Date		
N/A 2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date								7
N/A 2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date		If yes or unknown co	mment (nn chai	acterization	o for storage		_
2.11.2 Is further characterization needed about the waste prior to acceptance for treatment? Yes No Unknown at this time Milestone Number Due Date N/A N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date		•	минет	on cha	actorization	i ioi storage.		
Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date	2 11 2		ization n	aadad	ahant tha s	vosto muiou to no	onton.	na fau tuaatmant?
Milestone Number Due Date N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date	2.11.2		ZXUQII II			vaste prior to ac	_	
N/A If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date					NO			Challown at this time
If yes or unknown, comment on characterization for treatment. N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date		Milestone Number				Due Date		
N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date		N/A				N/A		
N/A 2.11.3 Is further characterization needed about the waste prior to acceptance for disposal? Yes No Unknown at this time Milestone Number Due Date		If yes or unknown, co	mment o	on chai	acterization	for treatment.		
Yes No Unknown at this time Milestone Number Due Date								
Yes No Unknown at this time Milestone Number Due Date	2.11.3	Is further character	zation n	eeded	about the v	vaste prior to ac	ceptano	ce for disposal?
						-	_	_
N/A N/A		Milestone Number				Due Date		_
		N/A				N/A		
		N/A						

2.12	Other k	ey assumptions r	elated to storag	ge, invento	ry, and genera	tion information:				
	None.									
				3.0 WAS	STE MINIMI	ZATION				
3.1	Has a w	aste minimizatio	n assessment be	een compl	eted for this str	ream?				
	□ Y	'es	\boxtimes	No						
	If yes, provide date assessment conducted: N/A									
	If yes, p	rovide document:	number or other	ridentifica	tion:					
	N/A									
	If no, p	rovide date assessi	ment will be cor	npleted, or	r if waste stream	n is no longer generated, then indicate N/A:				
	This wa	ste is not a routine	ely generated.							
3.2	stream volume materia	(e.g., process cha through segregat	nges to reduce tion and avoida	or elimina	te LDR waste,	the generation of this methods to reduce stitution of less-toxic				
3.3	~ ~	minimization sch								
3.3	3.3.1	Reduction achi		lendar ye:	ar 2002 (volum	e or mass)				
		0.000	m3	-	•					
	3.3.2	Projected futur	re waste volum	e reductio	ns					
		Year	m ³	and/or	kg					
		2003	0.000							
		2004	0.000]						
		2005	0.000							
		2006	0.000							
		2007	0.000	_						
		Total	0.000]						
	3.3.3	Bases and assu	imptions used i	n above es	stimates:					

No volume reduction is expected.

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1.0 WASTE STREAM IDENTIFICATION

1.1	Treatal	bility G	roup Name:				MLLW-08 - Unique Waste
1.2	Descrip	otion of	waste (list WSR	d numbe	rs for this waste stre	am, as applicable)	
		ed for t	g not typically METL or				
			;	2.0 WAS	TE INVENTORY	AND GENERATION	
2.1			· ·		tream (stored waste o c data sheets for this	only, not accumulation treatability group.]	
	Total ve	olume (cubic meters):		20.24	0	
2.2		-	eration projection this treatability	•	ndar year: [equals a	nnual sums of location-specfic	
	Ye	аг	m ³	and/or	kg		
	200	03	0.000				
	200	04	0.000				
	200	05	0.000				
	200	06	0.000				
	200	07	0.000				
	To	otal	0.000				
				3.0 WAS	STE STREAM CH	ARACTERIZATION	
3.1	Radiolo	ogical C	Characteristics				
	3.1.1	Mixe	ed waste type:		High-level	Transuranic	Low-level
	3.1.2	Hane	dling (as packag	e content	s would need to be ha	indled during treatment):	
		\boxtimes	Contact-handled		Remote-handled	ı	
	3.1.3				racteristics (e.g., mo radiation, confidenc	re specific information on conten e level):	it,
		chara	-	tiological		rous waste physical pected to vary greatly. There is a	

3.2	Physica	d Form											
	3.2.1	Physical form of the waste:											
		Solid	Liquid	Semi-solid		Debris							
		Other (Describe in comm	ents.)										
	3.2.2	Comments on physical form:											
		None.											
3.3	Regulate	d constituents and wastewater	/non-wastewater cates	gory									
	3.3.1	Wastewater/non-wastewater	under RCRA										
		☐ Wastewater	Non-wastewater	Unkı	nown								
	3.3.2	Regulated constituents table i	including treatment re	quirements and UI	HCs, if applica								
	EPA/			Concentration		LDR Treatment Concentration							
	State		LDR Sub-	(Typical or		Standard or							
	Numbe	r Waste Description	Category*	Range)**	Basis	Technology Code							
	D001	Ignitable	Initable Charac.	***	***	DEACT and meet 40 CFR 268.48							
	F022	Process Waste Tetra- penta- or hexachloro-benzenes	N/A	***	***	Various see 40 CFR 268.40							
	F027	Various Dioxins	N/A	***	***	Various see 40 CFR 268.40							
	P015	Beryllium Dust	N/A	**	***	RMETL or RTHRM							
	 LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40). If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6. The concentration varies and is based on process knowledge and/or analytical data. 												
	3.3.3	List any waste numbers from meets established LDR treatn		h the waste stream	already								
			uçnı ş iqikudi u s.										
		List:											
		No LDR treatment require	ed (e.g. TRUM waste d	estined for WIPP, e	xclusion, etc.)								
		None (i.e. all constituents treatment).	/waste numbers of this	waste stream still re	equire								

	3.3.4	Does this wa	ste str	eam contain P	CBs?					
		☐ Yes		X	No			Unknown		
		If no or unkn	own, s	kip to Section 3	3.3.5.					
		3.3.4.1	Is w	aste stream sul	bject to T	SCA regul	ations for I	CBs?		
				Yes			No			Unknown
		3.3.4.2	Indi	cate the PCB c	oncentrat	ion range.	ı			
				< 50 ppm			≥ 50 ppm			Unknown
	3.3.5	What is the	confide	ence level for t	he regulat	ed constit	uents?			
		Low			Medium	1	X	High		
	3.3.6	Comments o	n regu	lated constitue	ents and v	astewater	/non-waste	water categor	y:	
		None.								
				4.0 W.	ASTE ST	ream :	FREATM:	ENT		
4.1	le thie v	waste stream ci	ırrentl	v heing treates	1 9					
7.1	∏ Ye			y being treater						
	If yes	provide details:		N/A						
			18 1. <i>.</i>			4! 8-4-		_ 4 47 47		
4.2		d treatment: C : applicable reg				_	-	r treating this	waste	stream
	□ No	treatment requ	ired (s	kip to Section 5	5.0)					
	☐ Tr	eating or plan to	treat	on site						
	☐ Tr	eating or plan to	treat	off site						
	X Tr	eatment options	still b	eing assessed						
4.3	Planne	d treatment me	thod, 1	facility, extent	of treatm	ent capaci	ty available	::		
	No treat	tment path is cu	rrently	in place for the	s waste st	ream.				
4.4	Treatm	ent schedule in	forma	tion:						
	accumu	re no treatment late for perform ry to support th	nance o	f more cost-eff	ective trea	itment. Tr	eatment is a			
4.5	Applica	ble Tri-Party	Agreer	nent treatment	mileston	e numbers	(including	permitting):		
	Milest	one Number			D	ue Date				
	N/A				N	/ A				

4.6	Proposed new Tri-Party Agreement treatment milestones:
	See Section 4.4.
4.7	If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?
	Yes No Unknown
	If yes, describe: N/A based on 4.2.
4.8	List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.
	None.
4.9	Key Assumptions:
	None.
	5.0 WASTE STREAM DISPOSAL
	After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):
	Treated waste will be disposed of in mixed waste trenches located on the Hanford Site.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	CWC			Waste Stre	eam:	Unique Waste
	Treata	bilitiy Group N	ame:	ML	LW-08 - Unique	Waste		
1.2	Applic	able profile nun	nber(s) for this	waste s	tream:			
	N/A							
1.3	Waste	stream source i	nformation					
	1.3.1	General desc maintenance		/aste (e.	g., spill clean-up	waste, discarde	ed lab mate	erials,
		This waste str	ream consists of	berylliı	ım (P015), F022 c	ontaminated w	aste, and F	027 contaminated waste.
	1.3.2	History of ho	w and where th	ie waste	was/is generated	l:		
		The waste wa	s generated at o	nsite lo	cations and placed	into storage at	CWC.	
	1.3.3	Source of the	regulated cons	tituents	:			
		See 1.3.1 and	1.3.2.					
	1.3.4	Source of the	information (e	.g., ana	lytical data, proce	ess knowledge,	document	number, etc.)
		Process know	ledge.					
	1.3.5	Additional no	otes:					
		None.						
	2	.0 WASTE ST	REAM STO	RAGE,	INVENTORY,	AND GENE	RATION	INFORMATION
	(NOTE	: For waste in s	atellite accumul	ation ar	eas and 90-day ac	cumulation area	as, skip to S	Section 2.6.)
2.1	Curren	t storage metho	d					
		Container (pad)	\boxtimes	Conta	iner (covered)		Container	r (retrievably buried)
	П	`ank		DST			SST	
		Other (explain):						
	2.1.1	How was the	waste managed	prior t	o storage?			
	Accumu	lated and packag	ged as waste by	waste g	enerators prior to	storage at CWC	c.	
	2.1.2	Timeframe w	hen waste was ;	placed t	o storage?			•
	Waste s	torage at CWC b	egan in 1988 ar	d conti	nues.			
2.2	Storage	inventory locat	ions:					
	Buildin	g/Room Number			Number of Conta	iners/Tanks		
	CWC		· · · · · · · · · · · · · · · · · · ·		3			
		· · · · · · · · · · · · · · · · · · ·			<u> </u>	 		

2.3	Current stored	inventory for th	is strea	am.							
	Total volume (co	ubic meters):		0.600							
	Date of inventor	y values:		01/06/2003							
	Comments on w	aste inventory:									
	WSRd "LPO", c	ontaining F027	waste a	nd one container	of WSRd "400)" contair	ing F022 w	ER. One container of aste are included in ue" waste stream			
2.4	Is storage capac	city at this locati	on pot	entially an issue	for this waste	stream?					
	Yes		X	No							
	If yes, what is th	ne total estimated	storag	e capacity?	1	N/A					
	When is this cap	acity expected to	be rea	ched?	1	N/A					
	Bases and assur	nptions used:									
	No issues with C	CWC storage bas	ed on 2	0 year waste gen	eration forecas	st.					
2.5	Planned storage	e areas for this v	vaste:								
	Current L	ocation	\boxtimes	CWC			DST				
	Other Are	ea(s) (list):									
	☐ None										
2.6	Estimated gener	ration projectio	n by ca	lendar year (incl	ludes waste in	satellite	and 90-day				
	accumulation a	= :	•	• •							
	. Year	m ³	and/or	kg	•						
	2003	0.000									
	2004	0.000									
	2005	0.000									
	2006	0.000									
	2007	0.000									
	Total	0.000									
2.7	DOE Storage C	ompliance Asse	ssment	information:							
		ent has been com									
	Document Num	ber		•		Date					
	A&E-SEC-02-0					01/21/20	02				
		Assessment has been scheduled. Scheduled date:									
			auied.	Scheduled date:							
	Other. Ex	(plain:									

M-020	one Number			Due Date	1		
WI-020	-12			10/31/199	91		
	re ever been any non- the environment?	permitte	d, una	uthorized rele	ease of this wa	iste strei	am from this storage
Y	'es	X	No				
If yes, s	ummarize releases and	l quantitie	s and p	provide date:			
N/A							
Are the	re any plans to submi	t request:	s for v	ariances or ot	her exemption	ns relate	d to storage?
Y	'es	X	No				
If yes, e	xplain: N/A						
Charac	terization						
2.11.1	Is further character	rization n	eeded	about the wa	ste prior to ac	ceptanc	e for storage?
	☐ Yes		X	No			Unknown at this time
	Milantana November				D. D.		
	Milestone Number				Due Date N/A		7
2.11.2	If yes or unknown, on N/A Is further character	rization n	eeded	about the wa	ste prior to ac	ceptanc	e for treatment?
2.11.2	N/A	rization n	eeded 🔀	about the wa	ste prior to ac	•	e for treatment? Jnknown at this time
2.11.2	N/A Is further character	rization n			ste prior to ac Due Date	•	
2.11.2	N/A Is further character Yes	rization n			•	•	
2.11.2	N/A Is further character Yes Milestone Number		×	No	Due Date	•	
2.11.2	N/A Is further character Yes Milestone Number N/A		×	No	Due Date	•	
2.11.2	N/A Is further character Yes Milestone Number N/A If yes or unknown, or	omment o	on chai	No racterization fo	Due Date N/A or treatment.		Inknown at this time
	N/A Is further character Yes Milestone Number N/A If yes or unknown, contact the contact the character of	omment o	on chai	No racterization fo	Due Date N/A or treatment.	ceptanc	Inknown at this time
	N/A Is further character Yes Milestone Number N/A If yes or unknown, contacted to the character N/A Is further character	omment o	on chai	No racterization for about the was	Due Date N/A or treatment.	ceptanc	Jnknown at this time
	N/A Is further character Yes Milestone Number N/A If yes or unknown, contained the character X Yes	omment o	on chai	No racterization for about the was	Due Date N/A or treatment. ste prior to ac	ceptanc	Jnknown at this time

this MLLW.

2.12	Other k	key assumptions	related to stora	ge, invento	ry, and genera	tion information:
	None.					
				3.0 WAS	STE MINIMI	ZATION
3.1	Has a w	vaste minimizatio	on assessment b	een compl	eted for this str	ream?
	□ ,	es es	×	No		
	If yes, p	rovide date asses	sment conducte	d:		N/A
	If yes, p	rovide document	number or othe	r identifica	tion:	
	N/A					
	If no, p	rovide date assess	ment will be co	mpleted, or	r if waste stream	n is no longer generated, then indicate N/A:
	None pl	anned. This was	te is not generat	ed at CWC		
	volume materis These a	through segrega ils):	ition and avoids	ance of con	nmingling, sub	methods to reduce stitution of less-toxic There are few opportunities to reduce waste
3.3	Waste i	minimization sch	edule			
	3.3.1	Reduction ach	ieved during ca	ilendar yea	ar 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	re waste volum	e reductio	ns	
		Year	m ³	and/or	kg	
		2003	0.000	7		
		2004	0.000			
		2005	0.000			
		2006	0.000			
		2007	0.000	_		
		Total	0.000			

3.3.3 Bases and assumptions used in above estimates:

There is no generation projected by CWC.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/PI	ant name:	T Plant Com	plex	Waste Strea	m:	MW Requiring Special Processing					
	Treatal	bilitiy Group Nan	ne:	MLLW-08 - U	nique Waste							
1.2	Applica	able profile numb	er(s) for this w	aste stream:								
	84A.											
1.3	Waste	stream source inf	ormation									
	1.3.1	General descri maintenance w	-	ste (e.g., spill cles	n-up waste, discarde	d lab mate	rials,					
		Waste that requ	iires special pro	cesssing and eval	uation prior to treatme	nt.						
	1.3.2	History of how	and where the	waste was/is gen	erated:							
				nt Complex and is so by offsite gener	s also received and sto rators	red at the T	Plant Complex from					
	1.3.3	Source of the t	regulated const	ituents:								
		See 1.3.1 and 1.3.2.										
	1.3.4	Source of the i	information (e. _l	ormation (e.g., analytical data, process knowledge, document number, etc.)								
		Process knowle	edge and analyti	ical.								
	1.3.5	Additional not	tes:									
		None.										
		2.0 WASTE ST	REAM STOR	AGE, INVENT	TORY, AND GENE	RATION	INFORMATION					
	(NOTI	E: For waste in sa	itellite accumula	ation areas and 90	-day accumulation are	as, skip to S	Section 2.6.)					
2.1	Curre	nt storage method	ı									
	×	Container (pad)	\boxtimes	Container (cove	red)	Containe	r (retrievably buried)					
		Tank		DST		SST						
		Other (explain):										
	2.1.1	How was the v	waste managed	prior to storage?	•							
	Waste	generated at the T	Plant Complex	and from onsite l	ocations and also by o	ffsite gener	ators.					
	2.1.2	Timeframe w	hen waste was j	placed to storage	?							
	1995 t	hrough 2000.										

	-	ory locations:						
	ding/Room				nber of Conta	iners/Tanks	<u></u>	
T Pl	ant Comple			5				
Curr	ent stored	l inventory for	this stre	am.				
Total	volume (cubic meters):		19.0	40	•		
Date	of invento	ry values:		12/31/2002				
Comm	nents on v	vaste inventory:						
		luctuate as T Pl generators.	ant Com	plex generates	waste, or pe	rforms waste	storage and	l treatment/verific
ls sto	rage capa	city at this loca	tion pot	entially an iss	ue for this w	aste stream?		
	Yes		X	No				
If yes,	, what is t	he total estimate	d storage	e capacity?		N/A		
When	is this ca	pacity expected	to be rea	ched?		N/A		
Bases	and assur	nptions used:						
N/A								
Plann	ed storag	e areas for this	waste:					
×	Current I	ocation	\boxtimes	CWC			DST	
	Other Ar	ea(s) (list):	N/A					
	None							
Estim	ated gene	ration projecti	on by cal	lendar year (i	ncludes was	te in satellite	and 90-day	<i>t</i>
accun	nulation a	reas):					_	
	/ear	m³	and/or	kg	 1			
	003	0.000			4			
	004	0.000						
	006	0.000			\dashv			
	007	0.000						
	otal	0.000			7			
			l ,		_			
	•	ompliance Ass		information:				
\boxtimes	Assessme	ent has been con	npleted.					
Docu	ment Num	ber				Date		
	&E-012					11/28/200	ın]

	ble Tri-Part	y Agreement						
	one Number	<u> </u>			Due D	ate		
N/A					N/A			
	re ever been the environm		mitted	d, unat	thorized r	elease of this wa	ste stre	am from this storage
□ Y	'es		X	No				
If yes, s	ummarize rel	eases and qua	ıntitie	s and p	rovide date	: :		
N/A	•							
Are the	re any plans	to submit rec	quests	s for va	riances or	other exemption	as relat	ed to storage?
	es .		×	No				
_								
If ves. e	xplain:	N/A						
If yes, e	_	N/A						
Charac	terization		tio n n	eeded .	about the v	waste prior to ac	ceptane	ce for storage?
·	terization	characterizat	tion n	eeded	about the v	waste prior to ac	ceptane	
Charac	terization Is further	characterizat	tion n			waste prior to ac Due Date	ceptane	
Charac	terization Is further Yes	characterizat	tion n				ceptan	ce for storage? Unknown at this tim
Charac	Is further Yes Milestone N/A	characterizat Number		×	No	Due Date	ceptan	
Charac	Is further Yes Milestone N/A If yes or un	characterizat		×	No	Due Date	ceptan	
Charac 2.11.1	Is further Yes Milestone N/A If yes or un	characterizat Number nknown, comi	ment (on char	No acterizatio	Due Date N/A n for storage.		Unknown at this tim
Charac	Is further Yes Milestone N/A If yes or us N/A Is further	characterizat Number nknown, comu	ment (on char	No acterization	Due Date N/A n for storage.	ceptan	Unknown at this tim
Charac 2.11.1	Is further Yes Milestone N/A If yes or un	characterizat Number nknown, comu	ment (on char	No acterizatio	Due Date N/A n for storage.	ceptan	Unknown at this tim
Charac 2.11.1	Is further Yes Milestone N/A If yes or us N/A Is further	Number nknown, comu	ment (on char	No acterization	Due Date N/A n for storage.	ceptan	Unknown at this tim

If yes or unknown, comment on characterization for treatment.

Characterization needs are determined after the containers are opened and the contents are examined because the containers have failed verification. Once the containers are opened, the container is either reassigned to another treatability group/WSRd data sheet or it is declared non-mixed waste. Any containers declared non-mixed waste will be removed from the LDR report. Further characterization of mixed waste containers, if needed, is anticipated to be performed as necessary to support the results of the M-091 TPA dispute.

	2.11.3	Is furt	her characterizat	ion needec	d about	the waste p	rior to accepta	nce for disposal?
		X	Yes		N	o		Unknown at this time
		Miles	tone Number			Г	Due Date	
		N/A				N	√A	
		If yes	or unknown, comm	nent on cha	aracteri:	zation for di	sposal.	
		To med after tr this M	eatment if the resid	sed treatm lues are M	nent star ILLW.	ndards appli No commit	cable for the resi ment is necessar	dues, sampling will be required y for the characterization needs on
2.12	Other I	key assun	nptions related to	storage, ir	nventor	y, and gene	ration informat	ion:
	None.							
				3.0	WAS	TE MINIM	IZATION	
3.1	Has a w	aste min	imization assessm	ent been o	comple	ted for this	stream?	
	Y	es		X No				
	If yes, p	rovide da	ite assessment con	ducted:			N/A	
	If yes, p	rovide do	cument number or	other iden	ntificati	on:		
	N/A							
	If no, pr	ovide dat	e assessment will l	be complet	ted, or i	f waste strea	am is no longer s	generated, then indicate N/A:
	N/A							
3.2	stream	(e.g., pro through	f current and pro cess changes to re segregation and a	duce or eli	iminate	LDR waste	e, methods to re	duce
	Waste n	ninimizati	on techniques are	used, whe	re possi	ble, during į	generation and t	reatment processing.
3.3	Waste n	ninimiza	ion schedule					
	3.3.1	Reduct	ion achieved duri	ng calend:	ar year	2002 (volu	me or mass)	
		C).000 m3					
	3.3.2	Project	ed future waste vo	olume red	uctions	ı		
		Ye	ear m³	ал	d/or	kg		
		200	0.0	000				
		200	0.0	000				
		200)5 0.6	000	-			
		200	<u> </u>	000	L			
		200	0.0	000	ı			

Total

0.000

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2003 goal to reduce, where possible, mixed waste generation. For FY 2003 to 2007, new goals will be evaluated and identified on a year by year basis. The T Plant Complex does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Waste Minimization/Pollution Prevention Group.

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1.0 WASTE STREAM IDENTIFICATION

l	Treatal	oility G	roup Name:			MLLW-09 - Lead-Acid and Cadmium Batteries					
2	Descrip	tion of	waste (list WSF	ld num!	bers for this was	te stream,	as applicable)				
	BAT, 80 offsite g			sists of	lead-acid and ca	dmium batt	eries from various	onsite locati	ions and from		
				2.0 W <i>A</i>	STE INVENT	ORY AN	D GENERATIO	ON			
l			inventory for th Is sum of location		•	-	not accumulation tability group.]	n			
	Total vo	olume (cubic meters):			8.416					
		•		•		quals annu	al sums of locatio	n-specfic			
	data sh	eets for	this treatability	group).						
	Ye		m ³	and/or	r kg	7					
	200		0.370			1					
	200		0.910			4					
	200		4.310			-					
	200		0.570	-		+					
	200		0.210	-		╡					
	То	tal	6.370			╛					
				3.0 W	ASTE STREA	M CHAR	ACTERIZATIO)N			
	Dadiale	ogiaal (Therestoristics	3.0 111	IOIL OIRLIN	W CIMIL	ic i bidbillic	•••			
		-	haracteristics			-1	— *		53		
	3.1.1	Mixe	ed waste type:		High-lev	ei	Transı	iranic	★ Low-level		
	3.1.2	Han	dling (as packag	e conte	nts would need	to be handl	ed during treatm	ent):			
		×	Contact-handled	l	Remote-	handled					
	3.1.3		ments on radio				pecific informatio /el):	n on conten	t,		
		char	e this waste is a gacteristics, the racconfidence that	diologic	al characteristics	s are expect	s waste physical ed to vary greatly.	There is a			
	Physic	cal Fo	rm								
	3.2.1	Phys	sical form of the	waste:							
		X	Solid		Liquid] Semi-solid		Debris		
			Other (Describe	in com	nents.)						
	3.2.2	Com	ments on physic	al form):						
		A to	nical container u	rill have	either lead-acid	or cadmiun	n hatteries, but not	both			

3.3.1	Wastewater/non-wastewa	ter under RCRA			
	Wastewater	Non-wastewater	Unk	nown	
3.3.2	Regulated constituents tal	ble including treatment re	equirements and U	HCs, if applic	able. LDR Treatme
EPA State Numb	ŧ	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	Concentration Standard or Technology Co
D002	Согтоѕіче	Corrosive Charac.	***	***	DEACT and meed 40 CFR 268.48
D004	TC-Arsenic	N/A	***	***	5.0 mg/l TCLP and meed 40 CFR 268
D006	Cadmium	Cadmium Containing Batteries	N/A	Process Knowledge	RTHRM
D008	Lead	Rad Lead Solids	N/A	Process Knowledge	MACRO (2)
D009	TC-Mercury	Low Mercury	<260 mg/kg	***	0.20 mg/l TCLP at meed 40 CFR 268
WSC2	Solid Corrosive	N/A	<=2.5 pH	***	Remove Solid Aci Charac,
WT01	Toxic, EHW	N/A	***	***	N/A
WT02	Toxic, DW	N/A	***	***	N/A
(1) Mix accorda	este is not consistent in concentration varies and is based and extremely hazardous wastes not with RCW 70.105.050(2). This determined that the proper mated lead acid batteries are Radianal concentrations are Radianal concentrations.	ed on process knowledge and may be land-disposed in Was	or analytical data.	facilities in adioactively	
Director	9, 2001 from Elizabeth A Cotsw r, Office of Environmental Polic	dioactive Lead Solids and MA worth, Director, Office of Solicy and Guidance, DOE.	d Waste, EPA, to And	y Lawrence,	- n
Director	- -	dioactive Lead Solids and MA worth, Director, Office of Solicy and Guidance, DOE.	d Waste, EPA, to And	y Lawrence,	en
Director	r, Office of Environmental Polic o be determined on a per-packag	tioactive Lead Solids and MA vorth, Director, Office of Solid y and Guidance, DOE. the basis during waste receipt, com Section 3.3.2 for whice	d Waste, EPA, to And	y Lawrence, activities, or who	en
Director UHCs to the wast	o, Office of Environmental Police o be determined on a per-packag te is sent for treatment. List any waste numbers fr	tioactive Lead Solids and MA vorth, Director, Office of Solid y and Guidance, DOE. the basis during waste receipt, com Section 3.3.2 for whice	d Waste, EPA, to And	y Lawrence, activities, or who	en
Director UHCs to the wast	o be determined on a per-package is sent for treatment. List any waste numbers from meets established LDR tre List:	tioactive Lead Solids and MA vorth, Director, Office of Solid y and Guidance, DOE. the basis during waste receipt, com Section 3.3.2 for whice	d Waste, EPA, to And from characterization the waste stream	y Lawrence, activities, or who	en

	3.3.4	Does this was	ste stre	am contain PC	Bs?					
		☐ Yes		X	No			Unknown		
		If no or unkno	own, sl	tip to Section 3.3	3.5.					
		3.3.4.1	Is wa	ste stream subj	ect to TSC	A regul	ations for P	CBs?		
				Yes			No			Unknown
		3.3.4.2	Indic	ate the PCB co	ncentration	range.				
				< 50 ppm			≥ 50 ppm			Unknown
	3.3.5	What is the o	onfide	nce level for the	e regulated	constit	uents?			
		Low			Medium		X	High		
	3.3.6	Comments o	n regu	ated constituen	its and was	tewater	/non-waster	water category	y:	
		Confidence is	s high t	hat the waste pa	ckages cont	ain leac	d acid or cad	mium batterie	s.	
				4.0 WA	STE STR	EAM '	TREATM	ENT		
4.1	Is this v	vaste stream cı	rrenti	y being treated:	?					
	☐ Ye	s		X	No					
	If yes, p	rovide details:		N/A						
4.2				he appropriate is, including LD				r treating this	waste	e stream .
	□ No	treatment requ	ired (sl	cip to Section 5.	0)					
	☐ Tre	eating or plan to	treat o	on site						
	☐ Tr	eating or plan to	treat o	off site						
	X Tre	eatment options	still b	eing assessed						
4.3	Planne	d treatment me	thod, i	acility, extent o	f treatment	t capac	ity available	:		
	No treat	tment path is cu	rrently	in place for this	waste strea	ım.				
4.4	Treatm	ent schedule ir	ıforma	tion:						
	Treatme	ent is anticipate	d to be	performed as no	ecessary to	support	the results o	of the M-091 T	PA di	spute resolution.
4.5	Applica	able Tri-Party	Agreer	nent treatment	milestone n	umber	s (including	permitting):		
	Milest	one Number			Due	Date	<u>.</u>			
	N/A				N/A					
4.6	Propos	ed new Tri-Pai	rty Agi	eement treatme	ent milestor	nes:				
	See Sec	tion 4.4.	- 3							

4.7		If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?									
	☐ Yes		□ No	Unknown							
	If yes, describe:	N/A based on 4.2	2.								
4.8		atability equivalency nt or already in place	•	aking petitions, and case-by-case exemptions							
		onsidered on the DOF batteries instead of R	•	provide a variance that allows macroencapsular	tion of						
4.9	Key Assumptions:										
	None.										
		5.0	WASTE STR	EAM DISPOSAL							
	After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):										

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Plant name:		324		Waste Str	eam:	Pb & Cd Batteries					
	Treata	bilitiy Group Nam	ie:	MLL	ALLW-09 - Lead-Acid and Cadmium Batteries							
1.2	Applic	able profile numbe	er(s) for this w	aste str	eam:							
	N/A											
1.3	Waste stream source information											
	1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):											
	Lead acid and cadmium batteries. 1.3.2 History of how and where the waste was/is generated:											
	Used lead acid and cadmium batteries.											
	1.3.3 Source of the regulated constituents:											
		Batteries contain	ning hazardous	constit	ients							
	1.3.4	Source of the in	formation (e.	g., analy	tical data, process knowledge	, document	number, etc.)					
		Process knowled	dge.									
	1.3.5	Additional notes:										
		None.										
	:	2.0 WASTE STR	EAM STOR	AGE,	INVENTORY, AND GEN	ERATION	INFORMATION					
	(NOTE	: For waste in sate	ellite accumula	ition are	as and 90-day accumulation ar	eas, skip to	Section 2.6.)					
2.1	Currer	nt storage method										
		Container (pad)		Contai	ner (covered)] Containe	r (retrievably buried)					
		Tank		DST] SST						
		Other (explain):										
	2.1.1	How was the wa	aste managed	prior to	storage?							
	N/A											
	2.1.2	Timeframe who	en waste was p	laced to	storage?	_						
	N/A											
2.2	Storag	e inventory locatio	ns:									
	Buildi	ng/Room Number			Number of Containers/Tanks							
N/A												

Cı	urrent store	d inventory for	this stre:	am.							
To	Total volume (cubic meters): 0.000										
Da	Date of inventory values:										
Co	mments on	waste inventory:									
SA	A waste.										
Is	storage cap	acity at this loca	tion pot	entially a	n issue for this wa	ste stream?					
		·	×	No							
If	ves, what is	the total estimate	· <u></u>	e canacity	1?	N/A					
		apacity expected	•		, ·	N/A					
		mptions used:	10 00 100	oned.		N/A					
Da	505 and a 550	mpuons useu.									
Tota		F Abi-									
Pla		ge areas for this Location		CWC			D.07				
			X X	CWC			DST				
	None	rea(s) (list):	N/A								
	timated gen :umulation :		on by cal	lendar ye	ar (includes waste	in satellite	and 90-day				
	Year	m ³	and/or	k,	æ						
	2003	0.000									
	2004	0.200									
	2005	0.000									
	2006	0.200									
	2007	0.000			- :						
	Total	0.400									
 DO	<u></u> .	0.400 Compliance Asse	scomant i	informet	ion						
		ent has been con									
	1 100000		.p.0.00.								
D	ocument Nun	ıber				Date					
_	Assessm	ent has been sche	duled 9	Schadular	d date:		****				
니				schedulet	ı uatç.						
X	Other. E	cplain: N/A	•								
App	plicable Tri	Party Agreeme	nt milest	ones rela	ited to storage at t	his location	:				
M	ilestone Num	ber			Due Date	_ ,					
N/	Ά				N/A						

2.9			een any non-p onment?	ermitte	d, unau	thorized re	lease of this wa	ste stre	am from this storage
	□ Y	'es		\times	No				
	If yes, s	ummariz	e releases and o	juantitie	s and p	ovide date:			
	N/A								
2.10	Are the	re any p	lans to submit	request	s for va	riances or	other exemption	ıs relat	ed to storage?
	□ Y	'es		X	No				
	If yes, e	xplain:	N/A						
2.11	Charac	terizatio	n						
	2.11.1	Is fur	ther characteri:	zation n	eeded a	bout the w	aste prior to ac	ceptan	ce for storage?
			Yes		\boxtimes	No			Unknown at this time
		Miles	stone Number				Due Date		
		N/A					N/A		
	If yes or unknown, comment on characterization for st							٠	
		N/A	,				_		
	2,11.2	Is fur	ther characteri	zation i	reeded :	about the w	vaste prior to ac	ceptan	ce for treatment?
			Yes		X	No			Unknown at this time
		Mile	stone Number				Due Date		
		N/A					N/A		
		If yes	or unknown, co	mment	on char	acterization	for treatment.		
		N/A							
	2.11.3	Is fur	ther characteri	zation (needed :	about the v	vaste prior to ac	ceptan	ce for disposal?
			Yes		X	No			Unknown at this time
		Mile	stone Number				Due Date		_
		N/A					N/A		
		If yes	or unknown, co	mment	on char	acterization	for disposal.		•
		N/A							
2.12	Other	key assu	mptions related	i to stor	rage, in	ventory, an	d generation in	format	ion:
	None.								

3.0 WASTE MINIMIZATION

3.1	Has a	waste minimizat	on assessment l	been comp	leted for this s	tream?							
		Yes	×	No									
	If yes,	provide date asse	ssment conducte	ed:		N/A							
	If yes,	provide documen	t number or othe	er identifica	ition:								
	If no, p	rovide date asses	sment will be co	mpleted, o	r if waste strea	m is no longer generated, then indicate N/A:							
	Not scl	neduled at this tin	ne.										
3.2	stream	(e.g., process che through segreg	anges to reduce	or elimina	te LDR waste	ng the generation of this e, methods to reduce bstitution of less-toxic							
	Non-ra	diological contan	ninated batteries	will be rec	ycled, when po	ossible.							
3.3	Waste minimization schedule												
	3.3.1	3.1 Reduction achieved during calendar year 2002 (volume or mass)											
		0.000 m3											
	3.3,2	Projected future waste volume reductions											
		Year	m ³	and/or	kg								
		2003	0.000										
		2004	0.000										
		2005	0.000	_									
		2006	0.000										
		2007	0.000										
		Total	0.000]							
	111	Races and age	umntions used i	n ahove est	timates.								

None.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	327		Waste Sti	ream:	Pb & Cd Batteries						
	Treats	abilitiy Group Nan	ne:	MLL									
1.2	Applic	able profile numb	er(s) for this v	aste str	eam:								
	N/A												
1.3	Waste												
	1.3.1	General descri maintenance w	-	iste (e.g	, spill clean-up waste, discar	ded lab matei	rials,						
		Lead acid and cadmium batteries.											
1.3.2 History of how and where the waste was/is generated:													
		Batteries that w	ere used in em	ergency	lights and other equipment.								
	1.3.3	Source of the r	egulated const	ituents:									
		Batteries conta	ining lead acid	and cadi	mium.								
	1.3.4	Source of the i	nformation (e.	g., analy	tical data, process knowledg	e, document i	number, etc.)						
		Process knowledge.											
	1.3.5	Additional notes:											
	None.												
		2.0 WASTE ST	REAM STOP	RAGE,	INVENTORY, AND GEN	ERATION	INFORMATION						
	(NOT	E: For waste in sa	tellite accumula	ation are	as and 90-day accumulation a	reas, skip to S	ection 2.6.)						
2.1	Curre	nt storage method											
		Container (pad)		Contai	ner (covered)	Container	(retrievably buried)						
		Tank		DST		SST							
		Other (explain):											
	2.1.1	How was the w	aste managed	prior to	storage?								
	N/A												
	2.1.2	Timeframe wh	en waste was j	olaced to	storage?								
	N/A												
2.2	Storag	ge inventory locati	ons:										
	Build	ling/Room Number			Number of Containers/Tanks								
	N/A					***************************************							

2.3	Current store	d inventory for t	his strea	m.							
	Total volume (cubic meters):			0.000						
	Date of inventory values:										
	Comments on waste inventory:										
	Waste is being	accumulated in !	SAA.								
2.4	_			ntially on	issue for this waste	streem?					
4.7	Yes	acity at this loca	non por	No	issue for this waste	. Sticain.					
		the total estimate	d storage		,						
	-		_		•						
		pacity expected	to be rea	cnea?							
	Bases and assu	mptions used:									
2.5	Planned stora	ge areas for this	waste:								
	Current	Location	\boxtimes	CWC			DST				
	Other A	rea(s) (list):	N/A								
	None										
2.6	accumulation Year		and/or	endar ye: kg	ır (includes waste ir	n sateilite	and 90-day				
	2003	0.000									
	2004	0.000									
	2005	3.600									
	2006	0.000									
	2007	0.000									
	Total	3.600									
2.7	DOE Storage	Compliance Ass	essment	informati	on:						
	☐ Assessm	ent has been con	npleted.								
	Document Nur	nber				Date					
		nber				Date					
	Document Nur	nber	eduled.	Scheduled	date:	Date					
	Document Nur	ent has been sch		Scheduled	date:	Date					
2.8	Document Nur	nent has been sch xplain: N/A	١.				1:				
2.8	Document Nur	nent has been sch xplain: N/A	١.		date: ted to storage at thi		ı:				

2.9		re ever been a the environme		d, unau	thorized re	lease of this wa	ste stre	am from this storage
	_ Y	es es	×	No				
	If yes, s	ummarize rele	ases and quantitie	s and p	rovide date:			
	N/A							
2.10	Are the	re any plans t	o submit request	s for va	riances or e	other exemption	ıs relat	ed to storage?
	Y	/es	X	No				
	If yes, e	xplain:	N/A					
2.11	Charac	terization						
	2.11.1	Is further c	haracterization r	eeded :	about the w	aste prior to ac	ceptan	ce for storage?
		☐ Yes		X	No			Unknown at this time
		Milestone N	iumher			Due Date		
		N/A	-4111001			N/A		7
		Y5			4	<u></u>		_1
		N/A	known, comment	on cnar	acterization	for storage.		
								5
	2.11.2	Yes	пигастегіланов і	ieeaea : X	No	aste prior to ac		ce for treatment? Unknown at this time
		□ 103						
		Milestone N	Number			Due Date		_
		N/A				N/A		
		If yes or unl	cnown, comment	on char	acterization	for treatment.		
		N/A						
	2.11.3	Is further c	haracterization ı	needed .	about the w	aste prior to ac	ceptan	ce for disposai?
		Yes	;	X	No			Unknown at this time
		Milestone N	Number			Due Date		
		N/A				N/A		
		If yes or unl	known, comment	on char	acterization	for disposal.		_
		N/A						
2.12	Other l	cey assumptio	ns related to stor	age, in	ventory, and	l generation int	ormati	on:
	None.	-		-	-			

3.0 WASTE MINIMIZATION

3.1	Has a waste minimization assessment been completed for this stream?											
		Yes	X	No								
	If yes, p	provide date asses	sment conducte	d:		N/A						
	If yes, į	provide document	number or othe	r identifica	ation:							
	N/A											
	If no, p	rovide date assess	ment will be co	mpleted, o	r if waste strean	n is no longer generated, then indicate N/A:						
	Not sch	eduled at this tim	e.									
3.2	stream volume	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):										
		es that can be radied of as mixed was	-	l are recyc	eled. Batteries th	hat are radiological contaminated will be						
3.3	Waste minimization schedule											
	3.3.1	Reduction ach	ieved during ca	lendar ye	ar 2002 (volum	e or mass)						
		0.000	m3									
	3.3.2	Projected futu	re waste volum	e reductio	ns							
		Year	m ³	and/or	kg							
		2003	0.000									
		2004	0.000									
		2005	0.000									
		2006	0.000	_								
		2007	0.000]								
		Total	0.000]								
	3.3.3	Bases and assu	imptions used i	n above es	itimates:							

None.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Plant name:		CWC	Waste Stream:			Pb & Cd Batteries				
	Treatabi	litiy Group Name:		MLL	W-09 - Lead-Acid and Cadmium Batteries						
1.2	Applicab	le profile number(s) for this w	aste str	eam:						
	N/A	·									
1.3	Waste stream source information										
	1.3.1	General description		ste (e.g.	, spill clean-up waste, disca	ardec	i lab matei	ials,			
	The waste stream consists of regulated batteries.										
	1.3.2 History of how and where the waste was/is generated:										
	The waste was generated at many onsite locations and also by offsite generators.										
	1.3.3 Source of the regulated constituents:										
		See 1.3.1 and 1.3.2	2.								
	1.3.4	Source of the info	rmation (e.g	g., analy	tical data, process knowled	dge,	document	number, etc.)			
		Process knowledge	е.								
	1.3.5	Additional notes:									
		None.									
	2.	0 WASTE STRE	AM STOR	AGE,	INVENTORY, AND GE	NE	RATION	INFORMATION			
	(NOTE:	For waste in satelli	ite accumula	tion are	as and 90-day accumulation	area	s, skip to S	ection 2.6.)			
2.1	Current	storage method									
	□ C	ontainer (pad)	\boxtimes	Contai	ner (covered)		Container	(retrievably buried)			
	☐ Ta	ınk		DST			SST				
	□ O:	ther (explain):									
	2.1.1	How was the wast	te managed	prior to	storage?						
	Accumul	ated and packaged b	by waste ger	erators	prior to storage at CWC.						
	2.1.2	Timeframe when	waste was p	laced to	storage?						
	Waste st	orage at CWC begai	n in 1988 an	d contin	ues.						
2.2	Storage	inventory locations) :								
	Building	z/Room Number			Number of Containers/Tanks						
	CWC 35										

_						
Tota	al volume ((cubic meters):		8.000		
Date	e of invent	ory values:		01/06/2003		
Con	nments on	waste inventory:				
	entory base, and 802.	ed on data for con	tainers r	esiding at the CWC a	as reported in the S	WITS for WSRd numbers E
Is se	torage cap	acity at this loca	tion pot	entially an issue for t	this waste stream?	•
	Yes		X	No		
If ye	es, what is	the total estimate	d storage	e capacity?	N/A	
Wh	en is this c	apacity expected	to be rea	iched?	N/A	
		mptions used:				
		•	sed on 2	0 year waste generati	ion foregast	
		ge areas for this		o year waste general	ion forceast.	
		ge areas for this Location		CNC		DOT
X	Current	Location	X	CWC		DST
		rea(s) (list):				
	Other A None	rea(s) (list):		·		
	None		on by ca	lendar year (include	s waste in satellite	and 90-day
□ Esti	None	eration projection	on by ca	lendar year (include	s waste in satellite	and 90-day
□ Esti	None mated gen	eration projection	on by ca		s waste in satellite	and 90-day
□ Esti	None imated gen umulation	eration projectic areas):			s waste in satellite	and 90-day
□ Esti	None imated gen umulation Year	eration projection areas):			s waste in satellite	and 90-day
□ Esti	None imated gen umulation Year 2003	eration projection areas): m ³ 0.000			s waste in satellite	and 90-day
□ Esti	None imated gen umulation Year 2003 2004 2005 2006	eration projection areas): m ³ 0.000 0.000			s waste in satellite	and 90-day
□ Esti	None imated gen umulation Year 2003 2004 2005	eration projection areas): m ³ 0.000 0.000 0.000			s waste in satellite	and 90-day

Г	one Number			Due Date			
M-02	D-12			10/31/1991			
	ere ever been any non-p the environment?	ermitte	d, unau	thorized relea	ase of this was	ste stre	am from this storage
	Yes	\boxtimes	No				
If yes,	summarize releases and c	uantitie	s and p	rovide date:			
N/A							
Are th	ere any plans to submit:	request	s for va	riances or oth	ner exemption	s relat	ed to storage?
	Yes	×	No				
If yes,	explain: N/A						
Chara	cterization						
2.11.1	Is further characteri	zation r	eeded	about the was	te prior to ac	ceptan	ce for storage?
	☐ Yes		×	No			Unknown at this time
			_				
	Milestone Number				Due Date		٦
	N/A				N/A		
	If yes or unknown, co	mment	on chai	acterization fo	or storage.		
	N/A						
2.11.2	Is further characteri	zation i	needed	about the was	te prior to ac	ceptan	ce for treatment?
	☐ Yes		X	No			Unknown at this time
	Milestone Number			<u> </u>	Due Date		٦
	N/A				N/A		
	If yes or unknown, co	mment	on cha	racterization fo	or treatment.		
	N/A						
2.11.3	Is further character	zation	needed	about the was	ste prior to ac	ceptan	ce for disposal?
	⊠ Yes		П	No	_		Unknown at this time
						_	
	Milestone Number				Due Date		

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment if the residues are MLLW. No commitment is necessary for the characterization needs on this MLLW.

2.12	Other k	key assumptions	related to stora	ge, invent	ory, and gener	ation information:
	None.					
				3.0 WA	STE MINIM	IZATION
3.1	Has a w	aste minimizati	ion assessment b	een comp	leted for this st	ream?
	□ Y	es es	\boxtimes	No		
	If yes, p	rovide date asse	ssment conducted	d:		N/A
	If yes, p	rovide documen	t number or othe	r identific	ation:	
	N/A					
	If no, pr	ovide date asses	sment will be con	mpleted, c	r if waste strear	n is no longer generated, then indicate N/A:
	None pla	anned - waste no	ot generated at C	WC.		
	stream (volume material These ac	(e.g., process ch through segrega ls):	anges to reduce ation and avoida fore the wastes a	or elimina nce of co	ate LDR waste, mmingling, sub	g the generation of this methods to reduce stitution of less-toxic CWC. There are few opportunities to reduce
3.3	Waste n	ninimization sch	iedule			
	3.3.1	Reduction ach	nieved during cal	lendar ye:	ar 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	re waste volume	reductio	ns	
		Year	m³	and/or	kg	
		2003	0.000			
		2004	0.000			
		2005	0.000			
		2006	0.000			
		2007	0.000			
		Total	0.000			

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pla	nt name:	PFP			Waste S	trea	n: Batteries, Lead
	Treatabi	litiy Group Nan	ne:	MLL	₩-09	- Lead-Acid and Cadr	nium	Batteries
1.2	Applicat	ole profile numb	ег(s) for this v	vaste stre	am:			
		leveloped.						
1.3	Waste st	ream source inf	ormation					
	1.3.1	General descri	-	aste (e.g.,	spill	clean-up waste, disca	arded	lab materials,
		Lead acid and	admium batter	ies.				
	1.3.2	History of how	and where th	e waste v	vas/is	generated:		
		Batteries that w	ere used in em	ergency l	ights	and other equipment.		
	1.3.3	Source of the 1	egulated cons	tituents:				
		Batteries conta	ining lead acid	and cadn	nium.			
	1.3.4	Source of the i	nformation (e.	g., analy	tical o	lata, process knowle	dge, e	document number, etc.)
		Process knowle	edge					
	1.3.5	Additional not	es:					
		None						
	2.	.0 WASTE ST	REAM STO	RAGE, l	INVE	ENTORY, AND GE	ENE	RATION INFORMATION
	(NOTE:	For waste in sa	tellite accumul	ation are	as and	190-day accumulation	агеа	s, skip to Section 2.6.)
2.1	Current	t storage method	ı					
		Container (pad)		Contai	ner (c	overed)		Container (retrievably buried)
	□т	ank		DST				SST
		other (explain):						
	2.1.1	How was the	waste managed	l prior to	stors	ige?		
	N/A							
	2.1.2	Timeframe w	hen waste was	placed to	stor	age?		
	N/A							
2,2	Storage	inventory locat	ions:					
	Buildir	ng/Room Number			Nun	nber of Containers/Tank	s	

Tota	ıl volume (cubic meters):		0.000			
Date	of invente	ory values:					
Con	ments on	waste inventory:					
Was	te is place	d directly into SA	AA upon	generation.			
				entially an issue f	or this wast	e stream?	
20 50	Yes		eion pot	No	or tills was	L Sti CHIII.	
If ve		the total estimate	ed etozage				
•			_				
		pacity expected	to be read	cileu?			
		mptions used:					
Non	e.						
DI	4 _ 4	ge areas for this	waste:				
FIAN	neo stora	ge areas ivi tiits					
		Location	X	CWC			DST
	Current	_		CWC			DST
	Current	Location		cwc			DST
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Current Other A	Location rea(s) (list): eration projecti	X	CWC endar year (incli	udes waste i		
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Current Other A None mated gen	Location rea(s) (list): eration projecti	X		udes waste i:		
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Current Other A None mated gen mulation	Location rea(s) (list): eration projecti areas):	⊠ on by cal	endar year (incl	udes waste i		
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Current Other A None mated gen mulation	Location rea(s) (list): eration projecti areas): m ³	⊠ on by cal	endar year (incl	udes waste i:		
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Current Other A: None mated gen mulation: Year	Location rea(s) (list): eration projecti areas): m ³ 0.360	⊠ on by cal	endar year (incl	udes waste i		
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Current Other A None mated gen mulation Year 2003 2004 2005	Location rea(s) (list): eration projecti areas): m ³ 0.360 0.700 0.700 0.360	⊠ on by cal	endar year (incl	udes waste i:		
☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	Current Other A None mated gen mulation Year 2003 2004	Location rea(s) (list): eration projecti areas): m ³ 0.360 0.700 0.700	⊠ on by cal	endar year (incl	udes waste i		

Mileste	one Number			Due Date	 ,		
N/A				N/A			
	re ever been any non-p the environment?	ermitted, ui	auth	orized rele	ase of this wa	ste stre	am from this storage
□ Y	es es	⊠ No)				
If yes, s	ummarize releases and o	quantities an	d prov	ride date:			
Are the	re any plans to submit	requests for	varia	nces or otl	ier exemptioi	ıs relat	ed to storage?
□ Y	es es	X No)				
If yes, e	xplain:						
Charac	terization						
2.11.1	Is further characteri	zation neede	d abo	ut the was	te prior to ac	ceptano	ce for storage?
	☐ Yes	×] N	o			Unknown at this time
	Milestone Number				Due Date		-
	N/A				N/A		
	If yes or unknown, co	mment on cl	naract	erization fo	r storage.		
	N/A						
2.11.2	N/A Is further characteri	zation neede	d abo	ut the was	te prior to ac	ceptano	ce for treatment?
2.11.2		zation neede		out the was	te prior to ac		ce for treatment? Unknown at this time
2.11.2	Is further characteri				te prior to ac		
2.11.2	Is further characteri						
2.11.2	Is further characteri Yes Milestone Number	<u>[</u> X] N	io	Due Date		
2.11.2 2.11.3	Yes Milestone Number N/A	mment on ci] N	erization fo	Due Date N/A r treatment.		Unknown at this time
	Yes Milestone Number N/A If yes or unknown, co	mment on ci	naract	erization fo	Due Date N/A r treatment.	ceptano	Unknown at this time
	Yes Milestone Number N/A If yes or unknown, co	mment on ci	naract	erization fo	Due Date N/A r treatment.	ceptano	Unknown at this time

2.12	Other	key assumptions :	related to stora	ge, invento	ory, and genera	tion information:							
	None												
				3.0 WAS	STE MINIMI	ZATION							
3.1	Has a waste minimization assessment been completed for this stream?												
	□ '	Yes	×	No									
	If yes, j	provide date asses	sment conducted	1 :									
	If yes,	provide document	number or othe	r identifica	tion:								
	lf no n	rovide date assess	ment will be co	mnleted o	r if waste strean	n is no longer generated, then indicate l	V/A·						
		tion 3.2 below.	mont win be con	ripiereu, o	i ii wasie sii ean	i io no tongot gonoratos, titoli insiesto i	17.2.2.						
	24-4		_										
3.2					_	the generation of this methods to reduce							
		through segrega	_			stitution of less-toxic							
		es that can be radio	• •	ed are recy	cled. Batteries	that are radiologically contaminated w	ill be						
3.3	Waste	minimization sch	edule										
	3.3.1	Reduction ach	ieved during ca	lendar yea	ar 2002 (volum	e or mass)							
		0.000	m3										
	3.3.2	Projected futu	re waste volum	e reductio	ns								
		Year	m ³	and/or	kg								
		2003	0.000]									
		2004	0.000										
		2005	0.000										
		2006	0,000										
		2007	0.000	<u> </u>									
		Total	0.000										
	3.3.3	Bases and assu	mptions used i	n above es	timates:								

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program which looks for further opportunities to reduce waste production or produce waste in a less hazardous form.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pla	ant name:	T Plant Co	mplex		Waste Stream	m:	Pb & Cd Batteries
	Treatab	oilitiy Group Na	ame:	ML	LW-09 - Lead-Acid	and Cadmium	Batteries	
1.2	Applica	ble profile nun	nber(s) for this	waste st	ream:			
	830.							
1.3	Waste s	tream source i	nformation					
	1.3.1	General desc maintenance		waste (e.	g., spill clean-up w	aste, discarded	l lab matei	rials,
		Lead acid bat	teries, etc.					
	1.3.2	History of he	ow and where	the waste	e was/is generated:			
		Generated at generators.	T Plant during	routine r	naintenance and tre	atment activitie	es and from	other onsite and offsite
	1.3.3	Source of the	e regulated cos	stituent	s:			
		See 1.3.1 and	11.3.2.					
	1.3.4	Source of the	e information ((e.g., ana	lytical data, proce	ss knowledge,	document	number, etc.)
		Process know	vledge.					
	1.3.5	Additional n	otes:					
		None.						
	2	2.0 WASTE S	TREAM STO	ORAGE	, INVENTORY,	AND GENE	RATION	INFORMATION
	(NOTE	: For waste in	satellite accum	ulation a	reas and 90-day acc	cumulation area	as, skip to S	Section 2.6.)
2.1	Curre	nt storage meth	od					
	X	Container (pad)	[2	Con	tainer (covered)		Containe	r (retrievably buried)
		Tank		DST	•		SST	
		Other (explain):	s t s	support v ype of w storage lo	arious waste manag	ement operation the waste can mple: If the wa	ns/activitie be stored in aste is bulk	covered storage areas to es. Depending upon the n covered or uncovered liquid, this waste might to revent freezing.
	2.1.1		e waste manag					
	Genera	ited as part of ro	utine maintena	nce and	treatment activities	and from other	onsite and	offsite generators.
	2.1.2	Timeframe	when waste w	as placed	l to storage?			
	1995 to	o present.						

S	itor	age inven	itory locations:							
_	Bui	lding/Roo	m Number			Numb	er of Containe	ers/Tanks		
	T P	lant Comp	lex			2				
	Curr	rent store	d inventory for	this stre	am.					
T	otal	l volume	(cubic meters):			0.410	5			
Ľ	ate	of invent	ory values:		12/31/20	002				
c	omi	ments on	waste inventory:							
It g	nven ener	ntory will rated was	fluctuate as T Pl te.	ant Com	plex gener	rates w	aste or perfo	orms treatme	ent/verifica	ation of onsite/offsi
Is	s sto	rage cap	acity at this loca	tion pot	entially ar	ı issue	for this was	ite stream?		
]	Yes		×	No					
If	yes	, what is	the total estimate	d storag	e capacity	?		N/A		
W	/hen	ı is this ca	apacity expected	to be rea	ched?			N/A		
В	ases	and assu	mptions used:							
N	/ A									
P	lann	ned stora	ge areas for this	waste:						
Σ	3	Current	Location	×	CWC				DST	
]	Other A	rea(s) (list):	N/A						
]	None								
			eration projectio	on by cal	lendar yes	ır (inc	udes waste	in satellite	and 90-day	y
20	:cun	nulation :	•							
_		Year	m³	and/or	kg					
-		2003	0.010	1						
-	-	2004	0.010 0.010		<u> </u>					
		2006	0.010							
		007	0.010							
	T	otal	0.050							
De	OE S	Storage (Compliance Asse	semant :	informatic					
×			ent has been com			J11,				
ı,	J	7135053111	ent has occir con	preteu.						
_[Ооси	ment Nun	iber					Date		
0)1-A	&E-012						11/28/200	0]

⋉ A	ssessme	ent has been sch	eduled.	Schedu	led date:		3rd qu	arter CY2005.
	ther. Ex	plain: N/A	A.					
Applica	ble Tri-	Party Agreeme	nt mile	stones r	elated to sto	rage at this loc	ation:	
Milesto	ne Numb	oer			Due Date			
N/A					N/A			
		been any non-p ronment?	ermitte	d, unau	thorized rel	ease of this wa	ste stre	eam from this storage
□ Y	es		\boxtimes	No				
If yes, s	ummaria	ze releases and o	quantitie	s and p	rovide date:			
N/A								
Are the	re any p	lans to submit	request	s for va	riances or o	ther exemption	ns relat	ted to storage?
□ Y	es		X	No				
If yes, e	xplain:	N/A						
Charac	ter iza tio	n						
2.11.1	ls fur	ther characteri	zation r	needed :	about the wa	iste prior to ac	ceptan	ce for storage?
		Yes		×	No			Unknown at this time
	Mile	stone Number				Due Date		
	N/A					N/A		
	If ves	or unknown, co	mment	on char	acterization	for storage.		
	N/A					-		
2.11.2	ls fur	ther characteri	ization 1	needed	about the wa	aste prior to ac	ceptan	ce for treatment?
		Yes		X	No			Unknown at this time
	Mile	stone Number				Due Date		_
	N/A					N/A		
	If yes	or unknown, co	omment	on char	acterization	for treatment.		
	N/A							
2.11.3	Is fur	ther characteri	zation 1	needed	about the wa	aste prior to ac	ceptar	ice for disposal?
		Yes		X	No			Unknown at this time
	Mile	estone Number				Due Date		
	N/A					N/A		
	Ц.							

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

Projection volumes for this waste stream are expected to fluctuate as operations, maintenance, and repackaging of other generators waste and canyon deck/cell cleanout continues. The generation rates will be updated as necessary.

3.0 WASTE MINIMIZATION

				J.U WASI	EMMMIZATION
3.1	Has a	waste minimizati	on assessment	been complete	d for this stream?
		Yes	X	No	
	If yes,	provide date asses	sment conducte	ed:	N/A
	If yes,	provide document	number or oth	er identificatio	n:
	N/A				
	If no, g	provide date assess	ment will be co	ompleted, or if	waste stream is no longer generated, then indicate N/A:
	See Se	ection 3.3.3 for disc	cussion on wast	e minimizatio	ı.
3.2	stream	ı (e.g., process chi e through segrega	inges to reduce	or eliminate	minimizing the generation of this LDR waste, methods to reduce ingling, substitution of less-toxic
		minimization tech practical.	niques are used	in maintenan	te planning processes and during treatment activities to the
3.3	Waste	minimization sch	edule		
	3.3.1	Reduction ach	ieved during c	alendar year :	2002 (volume or mass)
		0.000	m3		

3.3.2 Projected future waste volume:	reductions
--------------------------------------	------------

Year	m ³	and/or	kg
2003	0.000		
2004	0.000		
2005	0.000		
2006	0.000		
2007	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2003 goal to reduce, where possible, mixed waste generation. For FY 2003 to 2007, new goals will be evaluated and identified on a year-by-year basis. The T Plant Complex does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Waste Minimization/Pollution Prevention Group.

1.0 WASTE STREAM IDENTIFICATION

1.1	Treatab	bility G	roup Name:							MLLW-10 - Reactiv	ve Metals
1.2	Descrip	tion of	waste (list WSR	d numbe	ers for this wa	ste stream, a	s applicabl	e)			
			3, 820, 822, 82A. May also consis				ve metals a	nd compou	ınds, typi	cally including	
			2	.0 WAS	STE INVEN	TORY AND) GENER	ATION			
2.1			inventory for this		•	•					
	Total vo	olume (cubic meters):			18.208					
2.2		_	eration projectio this treatability	-	endar year: [e	equals annua	i sums of lo	cation-sp	ecfic		
	Ye	ar	m ³	and/or	kg						
	200	03	0.301		0.002						
	200	04	0.301		0.002						
	200	05	0.301		0.002						
	200		0.301		0.002	_					
	200	U7	0.301		0.002						
	То	tal	1.505		0.010						
			;	3.0 WA	STE STREA	M CHARA	CTERIZ.	ATION			
3.1	Radiolo	ogical C	Characteristics								
	3.1.1	Mixe	ed waste type:		High-le	vel	<u> </u>	Fransuranio	e	★ Low-level	
	3.1.2	Han	dling (as packag	conten	ts would need	to be handle	d during tr	eatment):			
		\boxtimes	Contact-handled		Remote	-handled					
	3.1.3		ments on radiolo	_				mation on	content,		
		chara	e the waste is a go acteristics, the rac confidence that t	liologica	l characteristic	s are expecte			ere is a		
3.2	Physic	cal Fo	rm								
	3.2.1	Phys	sical form of the	waste:							
		X	Solid		Liquid		Semi-soli	id	D	ebris	
			Other (Describe	in comm	ents.)						
	3.2.2	Com	ments on physic	al form:							
		A ty	pical container co	nsists of	waste contam	inated with re	active com	ponents.			

Regulat	ed constituent	s and wastewa	ter/non-wastewater o	eategory		
3.3.1	Wastewater	non-wastewat	er under RCRA			
	Wastew	ater	Non-wastew	ater	Unknown	
3.3.2	Regulated co	nstituents tab	le including treatmer	nt requirements an	d UHCs, if applic	able.
EPA State Numb	e	te Description	LDR Sub- Category*	Concentral (Typical e Range)*	Dr	LDR Treats Concentrat Standard Technology
D001	Ignitable		Low TOC	***	***	DEACT and me
D002	Согтовіч	;	Corrosive Charac.	***	***	DEACT and me 268.48 standard
D003	Reactive		Other Reactives	N/A	Process Knowledge	DEACT and me 268.48 standard
D003	Reactive		Reactive Cyanides	N/A	Process Knowledge	590/30 mg/kg
D003	Reactive		Water Reactive	N/A	Process Knowledge	DEACT and me 268.48 standards
D005	TC-Bariu	m	N/A	***	***	21 mg/l TCLP & meet 40 CFR 26
D007	TC-Chro	nium	N/A	***	水中市	0.60 mg/l TCLP meet 40 CFR 26
WSC2	Solid Cor	rosive	N/A	***	***	Remove Solid A Charac.
WT02	Toxic, D	ν	N/A	***	***	N/A
subcates	gories for the was ste is not consist	ste number (40 C	isting subcategory adequence. FR 268.40). Sion, this may not apply. I on process knowledge	Described in Section	i 3.3.6.	o defined
3.3.3			m Section 3.3.2 for water	hich the waste str	eam already	
	List:					
	☐ No LDR	treatment requ	iired (e.g. TRUM was	te destined for WIP	P, exclusion, etc.)	
	None (i.e		its/waste numbers of t	his waste stream st	ill require	

	3.3.4	Does this w	aste stre	eam contain PCBs	?			
		☐ Yes		× No	o		Unknown	
		If no or unk	nown, sl	kip to Section 3.3.5				
		3.3.4.1	Is wa	aste stream subject	to TSCA regul	lations for F	PCBs?	
				Yes		No		Unknown
		3.3.4.2	Indic	cate the PCB conce	entration range	•		
				< 50 ppm		≥ 50 ppm		Unknown
	3.3.5	What is the	confide	ence level for the re	egulated constit	uents?		
		Low		□м	edium	×	High	
	3.3.6	Comments	on regu	lated constituents	and wastewater	/non-waste	water catego	ry:
		Confidence	is high t	that the waste packa	age contains rea	ctive waste	contamination	n.
				4.0 WAS7	TE STREAM	TREATM	ENT	
.1	Is this v	waste stream	currentl	y being treated?				
	☐ Ye	es		× N	0			
	If yes, p	provide details	<u>:</u>	N/A				
.2				he appropriate bo is, including LDR		-	r treating thi	is waste stream
	□ No	treatment rec	uired (sl	kip to Section 5.0)				
	٠٠٠ ليا							
		eating or plan	to treat o	on site				
	Tr							
	☐ Tr	eating or plan	to treat o	off site				
1.3	☐ Tr	eating or plan eating or plan eatment option	to treat ons still be	off site	reatment capac	ity available	e:	
1.3	☐ Tr ☐ Tr ☑ Tr ☑ Tr	eating or plan eating or plan eatment option d treatment m	to treat ons still be	off site eing assessed	-	ity available	e:	
1.3	☐ Tr ☐ Tr ☐ Tr ☐ Tr ☐ Tr ☐ Tr	eating or plan eating or plan eatment option d treatment m	to treat ones still be nethod, f	off site eing assessed facility, extent of to	-	ity available	e:	
	☐ Tr	eating or plan eating or plan eatment option d treatment in tment plans fo	to treat ones still be nethod, for this wa	off site eing assessed facility, extent of to ste stream have bed tion:	en completed.			TPA dispute resolution.
	Tratm	eating or plan eating or plan eatment option d treatment in traction the plans for ment schedule ent is anticipat	to treat of as still be nethod, if r this wainforma	off site eing assessed facility, extent of to ste stream have bed tion:	en completed.	the results o	of the M-091	•
l. 4	Tratm Treatm Treatm Applies	eating or plan eating or plan eatment option d treatment in traction the plans for ment schedule ent is anticipat	to treat of as still be nethod, if r this wainforma	off site eing assessed facility, extent of to aste stream have bed tion: performed as nece	en completed.	the results o	of the M-091	•

4.7	If treating or plann and/or selecting the	•		or will wa	ste minimization	ı be a	ddressed in developing
	☐ Yes			No			Unknown
	If yes, describe:	N/A based on 4	1.2.				
1.8	List or describe tre needed for treatme	* *	• •	titions, rui	emaking petitio	ns, an	d case-by-case exemptions
	None.						
1.9	Key Assumptions:						
	None.						
		5	5.0 V	VASTE S	TREAM DISP	OSA	ıL
	After treatment, ho required, etc. as ap		eam	be dispose	ed of (include loc	ation:	s, milestone numbers, variances
	Treated waste will b	e disposed of in mix	ed w	aste trench	es located on the	Hani	ford Site.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pl	ant name:	222-S Labor	atory Complex	Waste Stream:	Reactive Metals and Metal Compounds
	Treatal	bilitiy Group Nar	ne:	MLLW-10 - Reactiv	e Metals	
1.2	Applica	able profile numb	per(s) for this w	aste stream:		
	None.					
1.3	Waste :	stream source inf	formation			
	1.3.1	General descri	•	ste (e.g., spill clean-up	waste, discarded lab m	aterials,
					gents used in laboratory and lab or hot cell analytic	operations (chemical used al procedures).
	1.3.2	History of how	v and where the	waste was/is generate	ed:	
		222-S generate	s waste during l	aboratory activities (e.	g., analytical procedures	and hot cell operations).
	1.3.3	Source of the	regulated const	ituents:		
		222-S Laborate	ory use standard	s and reagents to perfo	rm analytical operations.	
	1.3.4	Source of the	information (e. _f	g., analytical data, pro	cess knowledge, docume	ent number, etc.)
		Material safety	data sheets are	used primarily to desig	mate standard and reagen	its.
	1.3.5	Additional no	tes:		·	
		None.				
	:	2.0 WASTE ST	REAM STOR	AGE, INVENTOR	Y, AND GENERATIO	ON INFORMATION
	(NOTE	E: For waste in sa	itellite accumula	ation areas and 90-day	accumulation areas, skip	to Section 2.6.)
2.1	Curre	nt storage method	i			
		Container (pad)	×	Container (covered)	☐ Conta	iner (retrievably buried)
		Tank		DST	☐ SST	
		Other (explain):				
	2.1.1	How was the	waste managed	prior to storage?		
		was managed per RL-91-27 Revisio		cility Dangerous Waste	Permit Application, 222-	S Laboratory Complex
	2.1.2	Timeframe w	hen waste was p	olaced to storage?		
	N/A					

otal volume (d inventory for a	this stream					
Date of invento	cubic meters):	inis sirvan	n.				
			0.000				
omments on	ory values:		12/31/2002				
	waste inventory:						
his data is fro	m SWITS speci	fic to 222-	S Laboratory.				
storage cap	acity at this loca	ition poter	itially an issue for	this waste stres	ım?		
Yes		X	No				
f yes, what is	the total estimate	ed storage	capacity?	N/A			
'hen is this ca	pacity expected	to be reac	hed?	N/A			
ases and assu	mptions used:						
/ A	•						
anned stora	ge areas for this	waste:					
Current	Location	X	cwc	r	_	D.07	
				Į.		DST	
Other A	rea(s) (list):			L		DST	
	rea(s) (list):			l	_	DST	
None		on by cale		l es waste in sate	Liite :		y
None Stimated gen	eration projecti	on by cale	ndar year (include	l es waste in sate	LJ		y
None	eration projecti	on by cale		l es waste in sate	J llite :		y
None Stimated gen	eration projecti areas):		ndar year (include	es waste in sate	LJ		y
None stimated gen ccumulation Year 2003 2004	eration projecti areas): m ³ 0.300 0.300		ndar year (include	es waste in sate	Liite :		y
None Stimated gen ccumulation Year 2003 2004 2005	eration projecti areas): m ³ 0.300 0.300		ndar year (include	es waste in sate	Lite		y
None Stimated gen ccumulation Year 2003 2004 2005 2006	eration projecti areas): m ³ 0.300 0.300 0.300		ndar year (include	es waste in sate	Liite :		y
None stimated gen ccumulation Year 2003 2004 2005	eration projecti areas): m ³ 0.300 0.300		ndar year (include	es waste in sate	Liite :		y

Miles	tone Nu	mber			Du	e Date			
N/A					N/.	\			
		er been any nor vironment?	n-permitte	d, unau	ıthorize	d release (of this wa	iste stre	am from this storage
	Yes		×	No					
If yes,	summa	rize releases an	d quantitie	s and p	rovide (late:			
N/A									
Are th	ere any	plans to subm	it request	s for va	riances	or other o	exemptio	ns relat	ed to storage?
	Yes		×	No					
If yes,	explain	: N/A							
Chara	cteriza	tion							
2.11.1	Is fu	urther characte	erization n	eeded :	about ti	ie waste p	rior to ac	ceptane	ce for storage?
		Yes		×	No	·		_	Unknown at this tim
	3.6	ilestone Number				ъ	ue Date		
	IVI	nesione number				υ	ue i mie		
	N/	'A							7
	N/					N	/A		
	If ye	es or unknown,	comment	on char	acteriza	N	/A		
	If ye	es or unknown,				N tion for sto	/A orage.		
2.11.2	If ye	es or unknown,		eeded :	about ti	N tion for sto	/A orage.	-	ce for treatment?
2.11.2	If ye	es or unknown,				N tion for sto	/A orage.	-	
2.11.2	If ye	es or unknown,		eeded :	about ti	ntion for sto	/A orage. rior to ac	-	
2.11.2	If ye	es or unknown, urther characte Yes		eeded :	about ti	ntion for sto	/A orage.	-	
2.11.2	If you N/A Is fu	es or unknown, urther characte Yes ilestone Number	erization n	eeded :	No	tion for sto	/A prage. rior to actue Date /A	-	
2.11.2	If ye N/A Is fu	es or unknown, urther characte Yes ilestone Number A	erization n	eeded :	No	tion for sto	/A prage. rior to actue Date /A	-	
	If ye N/A Is fu N/A	es or unknown, urther characte Yes ilestone Number A es or unknown,	comment	eeded :	No No acteriza	tion for store waste p D N tion for tre	/A prage. rior to act ue Date /A satment.		Unknown at this time
2.11.2	If you N/A Is full N/A Is full N/A	es or unknown, Yes ilestone Number A es or unknown,	comment	eeded :	No Acteriza	tion for store waste p D N tion for tre	/A prage. rior to act ue Date /A satment.	cceptano	Unknown at this time
	If ye N/A Is fu N/A	es or unknown, Yes ilestone Number A es or unknown,	comment	eeded :	No No acteriza	tion for store waste p D N tion for tre	/A prage. rior to act ue Date /A satment.	cceptano	Unknown at this time
	If ye N/A Is fu N/A If ye N/A Is fu	es or unknown, Yes ilestone Number A es or unknown,	comment	eeded :	No Acteriza	tion for sto	/A prage. rior to act ue Date /A satment.	cceptano	Unknown at this time

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment if the residues are MLLW. No commitment is necessary for the characterization needs on this MLLW.

2 12	045	• • • • • • • • • • • • • • • • • • • •				
2.12		key assumptions	related to stora	ge, invent	ory, and gener	ation information:
	None.					
				3.0 WA	STE MINIM	IZATION
3.1	Has a v	vaste minimizati	on assessment be	een comp	leted for this st	ream?
	X	Yes		No		
	If yes, p	provide date asses	ssment conducted	l:		9/2000
	If yes, p	provide document	number or other	identifica	ation:	
	Operati	ng and analytical	procedures at 22	2S Labor	atory.	
	If no, p	rovide date assess	sment will be con	npleted, o	r if waste strear	n is no longer generated, then indicate N/A:
3.2	stream	(e.g., process cha through segrega	inges to reduce o	or elimina	ite LDR waste,	g the generation of this methods to reduce stitution of less-toxic
	222-S p ware. 2	ersonnel minimiz 22-S seek innova	e waste through tive technology t	proper pla hat will a	nning during A llow waste min	JHA and pre-jobs and optimizing use of lab imization.
3.3	Waste r	minimization sch	edule			
	3.3.1	Reduction ach	ieved during cal	endar ye:	ar 2002 (volum	e or mass)
		7.300	m3			
	3.3.2	Projected futu	re waste volume	reductio	ns	
		Year	m³	and/or	kg	
		2003	0.000			
		2004	0.000			
		2005	0.000			
		2006	0.000			
		2007	0.000			
		Total	0.000			

3.3.3 Bases and assumptions used in above estimates:

DOE/RL-2000-79 - "Pollution Prevention Accomplishments" document reported waste reductions for CY 2000. The waste reduction volume reported in Section 3.3.1 is a total waste minimization volume for similar waste streams across the 222-S Laboratory; this waste stream may be a portion of what was reported. 222-S has no waste minimization goals for this waste stream; therefore, no projected future waste volume reduction are reported in Section 3.3.2. However, the analytical process generating this stream is continuously evaluated for waste minimization opportunities.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pi	ant name:	324		Waste Strea	ım:	Reactive Metals
	Treata	bilitiy Group Na	me:	MLLV	V-10 - Reactive Metals		
1.2	Applic	able profile numi	ber(s) for this w	aste stre	am:		
	N/A						
1.3	Waste	stream source in	formation				
	1.3.1	General descr		aste (e.g.,	spill clean-up waste, discarde	d lab mater	ials,
		Used or discar	ded thermal exp	ansion de	evice, dosimeter set, and tensile	sheet speci	men.
	1.3.2	History of hov	w and where th	e waste w	as/is generated:		
		Used or discar	ded materials.				
	1.3.3	Source of the	regulated const	tituents:			
		Elemental Lith	nium and Sodiui	m			
	1.3.4	Source of the	information (e.	g., analy	tical data, process knowledge,	document 1	number, etc.)
		Identified duri	ng an LDR Ass	essment o	of the 324 building.		
	1.3.5	Additional no	tes:				
		None.					
		2.0 WASTE ST	REAM STO	RAGE, 1	NVENTORY, AND GENE	ERATION	INFORMATION
	(NOT	E: For waste in s	atellite accumul	ation area	as and 90-day accumulation are	as, skip to S	ection 2.6.)
2.1	Curre	nt storage metho	d				
		Container (pad)		Contair	ner (covered)	Container	(retrievably buried)
		Tank		DST		SST	
		Other (explain):					
	2.1.1	How was the	waste managed	l prior to	storage?		
	N/A						
	2.1.2	Timeframe w	hen waste was	placed to	storage?		
	N/A						
2.2	Stora	ge inventory loca	tions:				
	Build	ding/Room Number			Number of Containers/Tanks		
							-

	d inventory for	riiis seeca	m.			
Total volume ((cubic meters):		0.000			
Date of invent	ory values:					
Comments on	waste inventory:					
In Shielded Ma	aterial Facility (S	SMF). Ma	atrix will be mana	iged as newl	y identifie	ed waste during SMF clear
			ntially an issue fo			
Yes	·	•	No			
If ves, what is	the total estimate	ed storage	capacity?			
-	apacity expected	_				
Bases and assu		10 00 100				
Dases and assu	impuons useu.					
	ge areas for this	_				
Current	Location		CWC			DST
C Other A	rea(s) (list):					
U Outer A	,,,,,					
None None	,,,,					
None None	eration projecti	on by cal	endar vear (inclu	ides waste ii	n satellite	and 90-day
None None		on by cal	endar year (inclu	ides waste ii	n satellite	and 90-day
None Estimated gen		on by cal	endar year (inclu	ides waste ii	n satellite	and 90-day
None Estimated gen accumulation	areas):		·	ides waste i	n satellite	and 90-day
None Estimated gen accumulation Year	areas):		kg	ides waste ii	n satellite	and 90-day
None Estimated gen accumulation Year 2003	m ³		kg 0.002	ides waste îi	n satellite	and 90-day
None Estimated gen accumulation Year 2003 2004	m ³ 0.000 0.000		kg 0.002 0.002	ides waste îi	n satellite	and 90-day
None Estimated gen accumulation Year 2003 2004 2005	m ³ 0.000 0.000 0.000		kg 0.002 0.002 0.002	ides waste îi	n satellite	and 90-day
None Estimated gen accumulation Year 2003 2004 2005 2006	m ³ 0.000 0.000 0.000 0.000		kg 0.002 0.002 0.002 0.002	ides waste i	n satellite	and 90-day
None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total	m ³ 0.000 0.000 0.000 0.000 0.000 0.000	and/or	kg 0.002 0.002 0.002 0.002 0.002 0.002	ides waste îi	n satellite	and 90-day
None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total	areas): m ³ 0.000 0.000 0.000 0.000 0.000 0.000 Compliance Ass	and/or	kg 0.002 0.002 0.002 0.002 0.002 0.002	ides waste i	n satellite	and 90-day
None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total	m ³ 0.000 0.000 0.000 0.000 0.000 0.000	and/or	kg 0.002 0.002 0.002 0.002 0.002 0.002	ides waste îi	n satellite	and 90-day
None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total DOE Storage (areas): m ³ 0.000 0.000 0.000 0.000 0.000 0.000 Compliance Assert has been contact that the contact that	and/or	kg 0.002 0.002 0.002 0.002 0.002 0.002	ides waste î		and 90-day
None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total	areas): m ³ 0.000 0.000 0.000 0.000 0.000 0.000 Compliance Assert has been contact that the contact that	and/or	kg 0.002 0.002 0.002 0.002 0.002 0.002	ides waste ii	n satellite Date	and 90-day
None Estimated gen accumulation Year 2003 2004 2005 2006 2007 Total DOE Storage G Assessm Document Num	areas): m ³ 0.000 0.000 0.000 0.000 0.000 0.000 Compliance Assert has been contact that the contact that	and/or	kg 0.002 0.002 0.002 0.002 0.002 0.010 nformation:	ides waste i	Date	and 90-day

Milesto	ne Number			Due Date			
M-094	00			09/30/201	8		
	re ever been any non-p he environment?	ermitte	d, unat	ithorized rele	ase of this wa	ste stre	am from this storage
□ Y	es	×	No				
If yes, s	ummarize releases and o	quantitie	s and p	rovide date:			
N/A							
Are the	re any plans to submit	request	s for va	ariances or ot	her exemption	is relat	ed to storage?
□ Y	es	X	No				
If yes, e	xplain: N/A						
Сћагас	terization				r		
2.11.1	Is further characteri	zation n	eeded	about the was	ite prior to ac	ceptano	ce for storage?
	Yes		X	No			Unknown at this time
	Milestone Number				Due Date		
					1		7
	If yes or unknown, co	mment	on chai	racterization fo	N/A or storage.		
2.11.2					or storage.		ce for treatment? Unknown at this time
2.11.2	If yes or unknown, co N/A Is further characteri		eeded	about the was	or storage.		
2.11.2	If yes or unknown, co N/A Is further characteri Yes		eeded	about the was	or storage.		
2.11.2	If yes or unknown, co N/A Is further characteri Yes Milestone Number N/A	zation n	eeded X	about the was	Due Date		
2.11.2	If yes or unknown, co N/A Is further characteri Yes Milestone Number	zation n	eeded X	about the was	Due Date		
	If yes or unknown, co N/A Is further characteri Yes Milestone Number N/A If yes or unknown, co	zation n	weeded	about the was	Due Date N/A or treatment.		Unknown at this time
2.11.2	If yes or unknown, co N/A Is further characteri Yes Milestone Number N/A If yes or unknown, co N/A Is further characteri	zation n	weeded	about the was	Due Date N/A or treatment.	ceptan	Unknown at this time
	If yes or unknown, co N/A Is further characteri Yes Milestone Number N/A If yes or unknown, co	zation n	weeded	about the was	Due Date N/A or treatment.	ceptan	Unknown at this time
	If yes or unknown, co N/A Is further characteri Yes Milestone Number N/A If yes or unknown, co N/A Is further characteri	zation n	weeded	about the was	Due Date N/A or treatment.	ceptan	Unknown at this time
	If yes or unknown, co N/A Is further characteri Yes Milestone Number N/A If yes or unknown, co N/A Is further characteri X Yes	zation n	weeded	about the was	Due Date N/A or treatment.	ceptan	Unknown at this time
	If yes or unknown, co N/A Is further characteri Yes Milestone Number N/A If yes or unknown, co N/A Is further characteri Yes Milestone Number	omment	on char	about the was	Due Date N/A Prior to account to account treatment. Ste prior to account to	ceptan	Unknown at this time

324/

this MLLW.

2.12 Other key assumptions related to storage, inventory, and generation information:

3.0 WASTE MINIMIZATION

3.1	Has a waste minimization assessment been completed for this stream?										
		Yes	×	No							
	If yes,	provide date asses	ssment conducted	1:		N/A					
	If yes,	provide document	number or other	r identifica	tion:						
	N/A If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:										
	N/A										
3.2	stream volume materia	(e.g., process cha through segrega als):	inges to reduce a	or elimina nce of com	te LDR waste,	g the generation of this , methods to reduce ostitution of less-toxic					
3.3	Waste is storing in a totally enclosed facility Waste minimization schedule										
	3.3.1 Reduction schieved during calendar year 2002 (volume or mass)										
		0.000	m3								
	3.3.2	Projected futu	Projected future waste volume reductions								
		Year	m³	and/or	kg						
		2003	0.000		0.000						
		2004	0.000		0.000						
		2005	0.000		0.000						
		2006	0.000		0.000						
		2007	0.000		0.002						

3.3.3 Bases and assumptions used in above estimates:

0.000

None.

Total

0.002

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pla	nt name:	CWC		Waste	Strea	m: Alkali metals					
	Treatabi	litiy Group Name	:	MLL	W-10 - Reactive Metals							
1.2	Applicat	ole profile number	(s) for this w	aste str	eam:							
	N/A											
1.3	Waste stream source information											
	1.3.1	General descript		ste (e.g.	, spill clean-up waste, disc	arded	I lab materials,					
		Reactive Metal W		metal hydrides, borohydrides and ended storage.								
	1.3.2	1.3.2 History of how and where the waste was/is generated:										
	The waste was generated at various onsite locations.											
	1.3.3	1.3.3 Source of the regulated constituents:										
	See 1.3.1 and 1.3.2.											
	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)											
	Process knowledge.											
	1.3.5	1.3.5 Additional notes:										
	None.											
	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION											
	(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)											
2.1	Current	storage method										
	□ c	ontainer (pad)	×	Contai	ner (covered)		Container (retrievably buried)					
	□ Ta	ank		DST			SST					
	□ o	ther (explain):										
	2.1.1	How was the wa	ste managed	prior to	storage?							
	Accumul	ated and packaged	by waste gen	erators	prior to storage at CWC.							
	2.1.2	Timeframe when	ı waste was p	laced to	storage?							
	Waste st	orage at CWC beg	an in 1988 an	d contin	ues.							
2.2	Storage	inventory location	ıs:									
	Buildin	g/Room Number			Number of Containers/Tank	S						
	cwc				56							

Current stored inventory for this stream.								
Total volume ((cubic meters):		18.000					
Date of invente	ory values:		01/06/2003					
Comments on	waste inventory:							
Inventory base 822, 82A, and		itainers re	esiding at the CWC as	reported in the SWITS for	or WSRds 44A, 44B, 820,			
Is storage cap	acity at this loca	tion pote	entially an issue for t	his waste stream?				
Yes		×	No					
If yes, what is the total estimated stor			e capacity?	N/A				
When is this ca	pacity expected	to be rea	ched?	N/A				
Bases and assumptions used:								
No issues with	CWC storage ba	sed on 20	0 year waste generatio	on forecast.				
	ge areas for this		,					
•	Location	×	cwc	□ DST				
		2.3		ر اسا م				
	rea(s) (list):							
Other A	eration projectic	on by cal	endar year (includes	waste in satellite and 90	-day			
Other A	eration projectic	on by cal	endar year (includes kg	waste in satellite and 90	-day			
Other A	eration projection ereas):			waste in satellite and 90	-day			
Other A None Estimated gen accumulation	eration projection areas): m³			waste in satellite and 90	-day			
Other A None Estimated gen accumulation Year 2003	eration projection projection projection m ³			waste in satellite and 90	-day			
Other A None Estimated gen accumulation: Year 2003 2004	eration projection projection projection m ³ 0.000 0.000			waste in satellite and 90	-day			
Other A None Estimated gen accumulation: Year 2003 2004 2005	eration projection areas): m ³ 0.000 0.000 0.000			waste in satellite and 90	-day			

M-020-	.12				10/3	1/1991		
			• •					
	re ever bo he enviro		permitte	d, unai	uthorized	release of this w	aste stre	eam from this storage
□ Y	es		\boxtimes	No				
If yes, s	ummarize	releases and	quantitie	s and p	rovide da	ite:		
N/A								
Are there any plans to submit requests for variances or other exemptions related to storage?								
□ Y	es		×	No				
If yes, e	xplain:	N/A						
Charac	terization	ı						
2.11.1	Is furth	er characteri	ization n	eeded	about the	waste prior to a	cceptan	ce for storage?
		l'es		X	No	-		Unknown at this time
						5.5.	_	
	N/A	one Number				Due Date		
	IV/A					18/7		
	If yes o	r unknown, co	omment	on chai	racterizati	on for storage.		
	N/A							
2.11.2	Is furth	er character	ization n	eeded	about the	waste prior to a	cceptan	ce for treatment?
	□ '	l'es		X	No			Unknown at this time
	Milest	one Number				Due Date		
	N/A	one Number				N/A		7
	L	<u></u>						_
	-	r unknown, co	omment (on chai	racterizati	on for treatment.		
	N/A							
2.11.3	Is furth	er character	ization n	eeded		waste prior to a	cceptan	-
	×	Yes			No			Unknown at this time
						Dua Data		
	Milest	one Number				Due Date		

after treatment if the residues are MLLW. No commitment is necessary for the characterization needs on

this MLLW.

2.12	Other key assumptions related to storage, inventory, and generation information:									
	None.									
				3.0 WA	STE MINIMI	ZATION				
3.1	Has a v	vaste minimizatio	on assessment b	een comp	eted for this st	ream?				
	□ '	Yes	×	No						
	If yes, p	provide date asses	sment conducted	1:		N/A				
	If yes, provide document number or other identification:									
	N/A									
	If no. p	rovide date assess	ment will be con	npleted, o	r if waste strean	n is no longer generated, then indicate N/A:				
	•	lanned - waste no		-		,				
3.2	•		-							
stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):										
		olumes placed int		ire transfer	red/shipped to	CWC. There are few opportunities to reduce				
3.3	Waste	Waste minimization schedule								
	3.3.1	3.3.1 Reduction achieved during calendar year 2002 (volume or mass)								
		0.000	m3							
	3.3.2	Projected futu	re waste volum	e reductio	ns					
		Year	m³	and/or	kg					
		2003	0.000							
		2004	0.000							
		2005	0.000							
		2006	0.000	_						
		2007	0.000	_		·				
		Total	0.000							
	3.3.3	Bases and assi	ımptions used i	n above es	timates:					

There is no projected generation by CWC.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1,1	Unit/Pla	ant name:	FFTF		Wa	ste Stream:	Reactive Metals							
	Treatal	oilitiy Group N	ame:	MLLW-	-10 - Reactive Metal	s								
1.2	Applica	ıble profile nuı	mber(s) for th	is waste strear	m:									
	H599.													
1.3	Waste stream source information													
	1.3.1	General des		e waste (e.g., s	pill clean-up waste,	discarded lab n	naterials,							
		piece usually	range from ta	ablespoon size	l during refueling an to 1/4 cup. The volu e taking place.	d maintenance a ume generated d	ctivities. The size of each epends on the amount of							
	1.3.2													
		Generated during refueling/maintenance activities when working with system components.												
	1.3.3	•												
		Small pieces of sodium from the system may be attached to components during maintenance and refueling activities. The sodium needs to be removed before Maintenance/Refueling activities can continue. Refueling activities also include removing non-fuel components from storage in sodium.												
	1.3.4	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)												
		Process know	wledge.											
	1.3.5	Additional	notes:											
		None.												
	:	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION												
	(NOTE	E: For waste in	satellite accu	mulation areas	and 90-day accumu	lation areas, skip	to Section 2.6.)							
2.1	Curre	nt storage metl	nod											
		Container (pad))	Containe	er (covered)	☐ Cont	ainer (retrievably buried)							
		Tank		□ DST		☐ SST								
		Other (explain)	:	N/A										
	2.1.1	How was th	e waste mana	ged prior to s	torage?									
	N/A													
	2.1.2	Timeframe	when waste v	vas placed to s	storage?									
	N/A													

	_	story locations:							
Bu	ilding/Roo	m Number		Nu	mber of Contain	ers/Tanks			
Cur	rent store	ed inventory for	this stree						
		(cubic meters):	VIII 311 C4		000				
		ory values:		0.	000				
		waste inventory							
		-							
The waste being reported is in an SAA. Is storage capacity at this location potentially an issue for this waste stream?									
15 St		acity at this loca	ation pote		ue for this wa	ste stream?			
	Yes			No					
If yes, what is the total estimated storage capacity?									
	•	apacity expected	to be rea	ched?					
Base	es and assu	imptions used:							
N/A									
Plan	ned stora	ge areas for this	waste:						
	Current	Location		CWC		DST			
	Other A	rea(s) (list):	N/A						
	None								
Estir	mated gen	eration projecti	on by cal	endar vear (i	ncludes waste	in satellite and 90-day	v		
							•		
	mulation	areas):							
	Year	areas):	and/or	kg	_				
		•	and/or	kg					
	Year 2003 2004	m ³ 0.001 0.001	and/or	kg					
	Year 2003 2004 2005	m ³ 0.001 0.001 0.001	and/or	kg					
	Year 2003 2004 2005 2006	m ³ 0.001 0.001 0.001 0.001	and/or	kg					
	Year 2003 2004 2005	m ³ 0.001 0.001 0.001	and/or	kg					

N/A				N/A			
	re ever been any non-p he environment?	ermitte	d, unau	ithorized re	lease of this was	ite stre	am from this storage
□ Y	es	\boxtimes	No				
If yes, s	ammarize releases and	quantitie	s and p	rovide date:			
N/A							
Are the	re any plans to submit	request	s for va	riances or	other exemption	s relat	ed to storage?
Y	es	×	No				
If yes, e	xplain: N/A						
Charac	terization						
2.11.1	Is further character	ization n	eeded	about the w	aste prior to ac	ceptan	ce for storage?
	☐ Yes		×	No			Unknown at this tim
	Milestone Number				Due Date		
	N/A			<u> </u>	N/A		7
					<u> </u>		. !
	If yes or unknown, co	omment	on chai	racterization	for storage.		
	N/A						
2.11.2	ls further character	ization 1			aste prior to ac	ceptan	
	☐ Yes		×	No		L	Unknown at this time
	Milestone Number				Due Date		
	N/A				N/A		
	If yes or unknown, co	omment	on cha	racterization	for treatment.		_
	,						
	N/A			- B 4 4 b	vaste prior to ac	centan	ce for disposal?
2112	N/A Is further character	izetion :	needed	SPAILT THE V			
2.11.3	Is further character	ization 1					Unknown at this time
2.11.3	·	ization 1	needed 🔀	No No			Unknown at this time
2.11.3	Is further character	ization 1			Due Date		Unknown at this time
2.11.3	Is further character Yes	ization 1					Unknown at this time

To meet concentration based treatment standards applicable for the residues, sampling will be required after treatment if the residues are MLLW. No commitment is necessary for the characterization needs on this MLLW.

2.12	Other key	assumptions	related to storage	, inventory, and	generation information:
------	-----------	-------------	--------------------	------------------	-------------------------

The final disposition of the 260,000 gallons of FFTF sodium has not been determined but the present plans are to use this sodium as a product and not as a waste.

3.0 WASTE MINIMIZATION

3.1	Has a	waste minimizati	on assessment b	een comp	leted for this st	ream?						
		Yes	X	No								
	If yes,	provide date asses	sment conducted	i:		N/A						
	If yes,	provide document	number or other	dentifica	ation:							
	N/A	N/A										
	If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:											
	Februa	гу 2007.				•						
3.2	stream volume	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):										
	equipm		minimize the wa		-	ninimization is not required. The refueling on, sodium is collected in drip pots, then heated						
3.3	Waste	minimization sch	edule									
	3.3.1	Reduction ach	leved during cal	lendar ye	ar 2002 (volum	e or mass)						
		0.000	kg									
	3.3.2	Projected futu	re waste volume	e reductio	ns							
		Year	m³	and/or	kg							
		2003	0.000									
		2004	0.000									
		2005	0.000									
		2006	0.000									
		2007	0.000									

3.3.3 Bases and assumptions used in above estimates:

0.000

None.

Total

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pl	ant name:	T Plant Com	plex	Wa	ste Strea	m: Alkali metals						
	Treatal	bilitiy Group Name	: :	MLL	W-10 - Reactive Metals	5							
1.2	Applica	able profile numbe	r(s) for this w	aste str	am:								
1.3	Waste stream source information												
	1.3.1	General descript maintenance wa		ste (e.g.	, spill clean-up waste, (discarded	l lab materials,						
		Old mercury spil	l kits.										
	1.3.2	1.3.2 History of how and where the waste was/is generated:											
		Waste Generated at the T Plant Complex.											
	1.3.3	3.3 Source of the regulated constituents:											
		See 1.3.1 and 1.3	3.2										
	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)												
		Process knowledge.											
	1.3.5	Additional notes	s:										
	4	None.											
	:	2.0 WASTE STR	EAM STOR	AGE,	INVENTORY, AND	GENE	RATION INFORMATIO						
	(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)												
2.1	Curre	nt storage method											
		Container (pad)	\boxtimes	Contai	ner (covered)		Container (retrievably burie						
		Tank		DST			SST						
		Other (explain):											
	2.1.1	How was the wa	iste managed	prior to	storage?								
	Genera	ted at the T Plant Co	omplex.										
	2.1.2	Timeframe whe	n waste was j	olaced to	storage?								
	2000.												
2.2	Storag	e inventory location	ns:										
	Buildi	ing/Room Number			Number of Containers/I	Tanks							
	T Plan	nt Complex			1								

2.3	Current stored inventory for this stre	am.		
	Total volume (cubic meters):	0.208		
	Date of inventory values:	12/31/2002		
	Comments on waste inventory:			
	None.			
2.4	Is storage capacity at this location pot	entially an issue for this	waste stream?	
	☐ Yes 🔀	No		
	If yes, what is the total estimated storag	e capacity?	N/A	
	When is this capacity expected to be rea	sched?	N/A	
	Bases and assumptions used:			
2.5	Planned storage areas for this waste:			
	□ Current Location	CWC	☐ DST	
	Other Area(s) (list):		_	
	None			
2.6	Estimated generation projection by ca	lendar year (includes wa	ste in satellite and 90-day	
	accumulation areas):		•	
	Year m ³ and/or	kg		
	2003 0.000	<u> </u>		
	2004 0.000 2005 0.000			
	2006 0.000			
	2007 0.000			
	Total 0.000			
2.7	DOE Storage Compliance Assessment	information:		
	Assessment has been completed.			
	_			
	Document Number		Date	
	01-A&E-012		11/28/2000	
	Assessment has been scheduled.	Scheduled date:	3rd quarter CY2005.	
	Other. Explain:			
2.8	Applicable Tri-Party Agreement miles	iones related to storage a	at this location:	
	Milestone Number	Due Date		
	N/A	N/A		
			<u></u>	

2.9	Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?										
	☐ Yes		×	No							
	If yes, summarize releases and quantities and provide date:										
	N/A										
2.10	Are there any plans to submit requests for variances or other exemptions related to storage?										
	Yes			No							
	If yes, e	xplain: N	I/A								
2.11	Characterization										
	2.11.1	Is further characterization needed about the waste prior to acceptance for storage?									
		☐ Yes		X	No			Unknown at this time			
		Milestone Nu	mber			Due Date		_			
		N/A				N/A					
	2.11.2	Is further ch	aracterization	needed a	bout the wa	ste prior to ac	ceptan	ce for treatment?			
		☐ Yes		×	No			Unknown at this time			
		Milestone Nu	ımber			Due Date		_			
		N/A				N/A					
		If yes or unknown, comment on characterization for treatment.									
	2.11.3 Is further characterization needed about the waste prior to acceptance for dis										
		Yes		×	No			Unknown at this time			
		Milestone N	umber			Due Date		_			
		N/A			·	N/A					
	If yes or unknown, comment on characterization for disposal.										
2.12	Other	key assumption	s related to sto	rage, inv	entory, and	generation in	format	ion:			
	None.	-									

3.0 WASTE MINIMIZATION

3.1	Has a	Has a waste minimization assessment been completed for this stream?									
		Yes	×	No							
	If yes,	provide date asse	ssment conducte	d:		N/A					
	If yes,	provide documen	t number or othe	r identific	ation:						
	N/A										
	If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:										
	N/A										
3.2	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):										
	To the extent practical, all mixed waste is segregated and packaged separatently from LLW. The volume of mixed waste is reduced by compaction, when possible. To minimize the generation of mixed waste, T Plant Complex personnel actively seek nondangeorus alternatives. In addition, waste minimization goals are set annually and tracked quarterly.										
3.3	Waste minimization schedule										
	3.3.1 Reduction achieved during calendar year 2002 (volume or mass)										
	0.000 m3										
	3.3.2 Projected future waste volume reductions										
		Year	m³	and/or	kg						
		2003	0.000]							
		2004	0.000								
		2005	0.000								
		2006	0.000	[
		2007	0.000								
		Total	0.000								

3.3.3 Bases and assumptions used in above estimates:

The T Plant Complex has submitted a P2/Wmin fiscal year 2003 goal to reduce, where possible, mixed waste generation. FY 2003 to 2007, new goals will be evaluated and identified on a year-by-year basis. T Plant Complex does not track waste reduction by treatability groups. Routine and non-routine generated waste is reported quarterly to the Wmin/P2 group.

1.0 WASTE STREAM IDENTIFICATION

1.1	Treatab	ility Group N	lame:								PUREX Plan
1.2 Description of waste (list WSRd numbers for this waste								pplicat	ole)		
		Concrete rubble contaminated with trace chromium as a corrosion product. No additional waste will be stored at this location, as the PUREX Plans is under long term S&M.									
				2.0 WAS	TE	INVENT	ORY AND C	GENEI	RATION		
2.1	Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]										
	Total vo	Total volume (cubic meters):									
2.2		Estimated generation projection by calendar year: [equals annual sums of location-specfic data sheets for this treatability group].									
	Ye	ar	m ³	and/or		kg	_				
	200)3	0.000	}	L						
	200	14	0.000								
	200)5	0.000			~					
	200		0.000	ł	<u> </u>						
	200	07	0.000	_							
	То	tal	0.000		<u></u>		Ĺ				
				3.0 WAS	STE	STREAM	M CHARAC	TERIZ	ZATION		
3.1	Radiological Characteristics										
	3.1.1	Mixed was	te type:			High-leve	el	X	Transuranic	Low-	-level
	3.1.2	2 Handling (as package contents would need to be handled during treatment):									
		Contact-handled		X	Remote-handled						
	3.1.3	Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):									
		The waste was generated during replacement of a vessel and renovation of the E-Cell floor. Concrete debris was placed in a metal box that is now stored in F-Cell. The chemical processing performed in E Cell was primarily treatment of disolved fuel cladding waste. Based on the Pu content and the radiological characteristics of the waste (emits approximately 500 rad/hr), it is categorized as remote-handled TRU. The									

confidence level is high.

Physic								
3.2.1	Physical fe	orm of the w	aste:					
	⊠ Solid		☐ Liqu	iid	Semi-s	solid		Debris
	Other	(Describe in	comments	.)				
3.2.2	Comment	s on physical	form:					
	None.							
Regulat	ted constitue	nts and wast	ewater/nor	n-wastewater cate	догу			
3.3.1	Wastewat	er/non-waste	water und	er RCRA				
	☐ Waste	ewater	X	Non-wastewater	. 🗆	Unkn	own	
EPA Stat	te			LDR Sub-	Concenti (Typics	al or		LDR Treatment Concentration Standard or
Numi	ber W	aste Descripti	on	Category*	Range)**	Basis	Technology Cod
subcate	egories for the	narked N/A if i	no existing s (40 CFR 268	ubcategory adequate 3.40). is may not apply. De				DEBRIS MACRO
* LDR subcate	Subcategory regories for the vaste is not con	narked N/A if i waste number (sistent in conce aste number	no existing s (40 CFR 268 entration, thi	ubcategory adequate 3.40). is may not apply. Do	ely describes thi	ion 3.3.6	results or if there are	
* LDR subcate ** If w	Subcategory regories for the vaste is not con List any was meets esta	narked N/A if i waste number (sistent in conce	no existing s (40 CFR 268 entration, thi	ubcategory adequate 3.40). is may not apply. Do	ely describes thi	ion 3.3.6	results or if there are	
* LDR subcate ** If w	Subcategory regories for the vaste is not con	narked N/A if i waste number (sistent in conce aste number	no existing s (40 CFR 268 entration, thi	ubcategory adequate 3.40). is may not apply. Do	ely describes thi	ion 3.3.6	results or if there are	
* LDR subcate ** If w	Subcategory regories for the vaste is not con List any water meets esta List:	narked N/A if i waste number (sistent in conce aste number blished LDR	no existing s (40 CFR 268 entration, thi	ubcategory adequate 3.40). is may not apply. Do	ely describes thi	ion 3.3.6	results or if there are	no defined
* LDR subcate ** If w	Subcategory regories for the vaste is not con List any water meets esta List:	narked N/A if i waste number of sistent in conce aste number blished LDR OR treatment (i.e. all const	no existing s (40 CFR 268 entration, thi s from Sec treatment	ubcategory adequate 3.40). is may not apply. Do tion 3.3.2 for which standards.	ely describes thi escribed in Secti ch the waste s	ion 3.3.6 stream	results or if there are fi. already celusion, etc.	no defined
* LDR subcate ** If w	Subcategory regories for the vaste is not con List any water meets esta List: No Li None treatn	narked N/A if i waste number of sistent in conce aste number blished LDR OR treatment (i.e. all const	no existing s (40 CFR 268 entration, thi s from Sec treatment required (c	subcategory adequate 3.40). is may not apply. Dettion 3.3.2 for which standards. e.g. TRUM waste of this steen numbers of this	ely describes thi escribed in Secti ch the waste s	ion 3.3.6 stream	results or if there are fi. already celusion, etc.	no defined
* LDR subcate ** If w	Subcategory regories for the vaste is not con List any water meets esta List: No Li None treatn	narked N/A if i waste number of sistent in conce aste numbers blished LDR OR treatment (i.e. all const- nent).	no existing s (40 CFR 268 entration, thi s from Sec treatment required (c tituents/was	subcategory adequate 3.40). is may not apply. Dettion 3.3.2 for which standards. e.g. TRUM waste of this steen numbers of this	ely describes thi escribed in Secti ch the waste s	ion 3.3.6 stream	results or if there are f. already celusion, etc.)	no defined
* LDR subcate ** If w	Subcategory regories for the vaste is not con List any water meets esta List: No Li None treatn Does this vanishing	narked N/A if i waste number of sistent in conce aste numbers blished LDR OR treatment (i.e. all const- nent).	no existing s (40 CFR 268 entration, thi s from Sec treatment required (c tituents/was	tion 3.3.2 for white standards. c.g. TRUM waste of this compared to the standards.	ely describes thi escribed in Secti ch the waste s	ion 3.3.6 stream : /IPP, ex	results or if there are f. already celusion, etc.)	no defined
* LDR subcate ** If w	Subcategory regories for the vaste is not con List any water meets esta List: No Li None treatn Does this vanishing	narked N/A if i waste number of sistent in concessistent in concessistent in concessistent in concessistent in concessistent in concessistent in constant in const	no existing s (40 CFR 268 entration, thi s from Sec treatment required (c tituents/was contain PC	tion 3.3.2 for white standards. c.g. TRUM waste of this compared to the standards.	ely describes this escribed in Section of the waste stream	ion 3.3.6 stream : /IPP, ex	results or if there are f. already celusion, etc.)	no defined
* LDR subcate ** If w	Subcategory regories for the vaste is not con List any water meets esta List: No Li None treatm Yes If no or un	narked N/A if i waste number of sistent in concessistent in concessistent in concessistent in concessistent in concessistent in concessistent in constant in const	no existing s (40 CFR 268 entration, thi s from Sec treatment required (c tituents/was contain PC to Section 3	subcategory adequate 3.40). is may not apply. Dettion 3.3.2 for which standards. c.g. TRUM waste of this company to the standards. No. 3.3.5.	ely describes this escribed in Section of the waste stream	ion 3.3.6 stream : /IPP, ex	results or if there are f. already celusion, etc.)	no defined
* LDR subcate ** If w	List any w meets esta List: No Li None treatn Yes If no or un 3.3.4.1	narked N/A if is waste number of sistent in concerns aste numbers to blished LDR OR treatment (i.e. all constinent). waste stream known, skip to Is waste	no existing s (40 CFR 268 entration, thi s from Sec treatment required (c tituents/was contain PC to Section 3 stream sultes	ubcategory adequate 3.40). is may not apply. Dettion 3.3.2 for which standards. c.g. TRUM waste of this CBs? No 3.3.5. bject to TSCA reg	ely describes thi escribed in Section the waste s destined for W s waste stream	ion 3.3.6 stream : /IPP, ex	results or if there are f. already celusion, etc.)	no defined
* LDR subcate ** If w	Subcategory regories for the vaste is not con List any water meets esta List: No Li None treatm Yes If no or un	narked N/A if i waste number of sistent in concessistent in concessistent in concessistent in concessistent LDR OR treatment (i.e. all constinent). waste stream known, skip t Is waste Indicate	no existing s (40 CFR 268 entration, thi s from Sec treatment required (c tituents/was contain PC to Section 3 stream sultes	subcategory adequate 3.40). is may not apply. Dettion 3.3.2 for which standards. c.g. TRUM waste of this company to the standards. No. 3.3.5.	ely describes thi escribed in Section the waste s destined for W s waste stream	ion 3.3.6 stream : /IPP, ex still red Unkn	results or if there are f. already celusion, etc.)	no defined

	3.3.5	What is the cor	nfidence level for	the regulated	l constituents?		
		☐ Low		Medium	0	X	High
	3.3.6	Comments on 1	regulated constit	uents and was	stewater/non-was	itew	vater category:
		Based on labora	itory analysis.				
			4.0 V	VASTE STE	REAM TREAT	ME	ENT
4.1	Is this v	vaste stream curr	ently being treat	ted?			
	☐ Ye	s	[⊠ No			
	If yes, p	rovide details:	N/A				
4.2		d treatment: Che applicable regula				for	treating this waste stream
	□ No	treatment require	d (skip to Section	n 5.0)			
	☐ Tre	eating or plan to to	reat on site				
	☐ Tr	eating or plan to t	reat off site				
	ズ Tr	eatment options st	ill being assessed	l			
4.3	Planne	d treatment meth	od, facility, exter	nt of treatmer	it capacity availa	ble	:
	Until a disposa		nade on the Canyo	on Disposition	Initiative, no con	nmi	tments will be made for waste
4.4	Treatm	ent schedule info	rmation:				
	Will be	established after	final decision is π	nade on the Ca	anyon Disposition	Ini	tiative.
4.5	Applica	able Tri-Party Ag	reement treatme	ent milestone	numbers (includ	ing	permitting):
	Milest	one Number		Du	e Date		
	N/A			N/A	Α.		
4.6	Pronos	ed new Tri-Party	Agreement trea	tment milesto	nes:	•	
***	None.		, , , , , , , , , , , , , , , , , , ,				
4.7		ing or planning t selecting the trea		as or will was	te minimization l	be a	iddressed in developing
	☐ Ye	es	ļ	□ No		X	Unknown
	If yes, o	describe:	N/A based on 4.2	2.			
4.8		describe treatable for treatment or		=	emaking petition	s, a1	nd case-by-case exemptions
	Unknov	wn.					

4.9 Key Assumptions:

Decommissioning of the PUREX Plant is addressed under Chapter 8 of the Tri-Party Agreement. The PUREX Plant is under long term surveillance and maintenance in accordance with Section 8.0, Facility Decommissioning Process, of the Tri-Party Agreement.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

A decision on the Canyon Disposition Initiative will affect the final disposition of the PUREX Plant and its contents.

B-584 PUREX Plant

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pla	ant name:	PUREX Plan	nt		Waste Strea	m:	PUREX Containment Building
	Treatal	oilitiy Group Na	me:	PURE	X Plant			
1.2	Applica N/A	ible profile numi	ber(s) for this w	aste stre	am:			
1.3	Waste s	stream source in	formation					
	1.3.1	General descr maintenance v	=	ste (e.g.,	spill clean-up	waste, discarde	i lab mat	erials,
		Concrete rubbl	le from the E-Ce	ll canyo	n floor was plac	ed in a metal bo	x during t	he floor renovation.
	1.3.2	History of hov	v and where the	waste w	vas/is generated	l:		
		Waste was ger	nerated from ren	ovation o	of the E-Cell flo	or.		
	1.3.3	Source of the	regulated const	ituents:				
		Process solution	ons spilled to the	E-Cell o	anyon floor			
	1.3.4	Source of the	information (e. _l	g., analyt	tical data, proc	ess knowledge,	documen	t number, etc.)
		Analytical data	a.					
	1.3.5	Additional no	tes:					
		Waste was ger	nerated in Septer	nber, 198	89.			
	2	2.0 WASTE ST	REAM STOR	LAGE, I	NVENTORY	, AND GENE	RATION	NINFORMATION
	(NOTE	: For waste in sa	atellite accumula	ation area	as and 90-day ac	cumulation area	s, skip to	Section 2.6.)
2.1	Curren	it storage metho	d					
		Container (pad)		Contair	ner (covered)		Contain	er (retrievably buried)
		Tank		DST			SST	
	X	Other (explain):	PUI	REX Cor	ntainment Build	ing.		
	2.1.1	How was the	waste managed	prior to	storage?			
	It was p	placed into this sto	orage configurat	ion upon	being generate	d.		
	2.1.2	Timeframe w	hen waste was p	placed to	storage?			
	Waste	was generated in	September 1989).				
2.2	Storag	e inventory locat	ions:					
	Buildi	ng/Room Number			Number of Con	tainers/Tanks		
	202A/	F-Cell			1 cell			

2.3	Current stored inventory for this stream.		
	Total volume (cubic meters):	1.000	
	Date of inventory values: 12/31/20	002	
	Comments on waste inventory:		
	Waste is located in a single metal box on the F-Ce	ll Canyon Floor.	
2.4	Is storage capacity at this location potentially an	issue for this waste stream	?
	☐ Yes 🗓 No		
	If yes, what is the total estimated storage capacity	N/A	
	When is this capacity expected to be reached?	N/A	
	Bases and assumptions used:		
	N/A		
2.5	Planned storage areas for this waste:		
			DST
	Other Area(s) (list):		
	None		
2.6	Estimated generation projection by calendar yes	r (includes waste in satellit	e and 90-day
	accumulation areas):		
	Year m ³ and/or kg		
	2003 0.000	· 	
	2004 0.000		
	2006 0.000		
	2007 0.000		•
	Total 0.000		
2.7	DOE Storage Compliance Assessment information	on:	
	Assessment has been completed.		
	Document Number	Date	
	Assessment has been scheduled. Scheduled	date:	
	Other. Explain:		
2.8	Applicable Tri-Party Agreement milestones relat	ed to storage at this locatio	n:
	Milestone Number	Due Date	
	N/A	N/A	

2.9			been any non-p ronment?	ermitte	d, unau	thorized re	lease of this wa	ste stre	am from this storage
	□ Y	'es		X	No				
	If yes, s	ummari	ze releases and	quantitie	s and p	rovide date:			
	N/A								
2.10	Are the	re any j	plans to submit	request	s for va	riances or o	other exemption	s relat	ed to storage?
	□ Y	es		×	No				
	If yes, e	xplain:	N/A						
2.11	Charac	terizati	o n						
	2.11.1	Is fur	ther characteri	zation r	eeded s	bout the w	aste prior to acc	ceptan	ce for storage?
			Yes		X	No			Unknown at this time
		Mile	stone Number				Due Date		
		N/A					N/A		
		If yes	or unknown, co	mment	on char	acterization	for storage.		
		N/A							
	2.11.2	Is fur	ther characteri	ization :	reeded a	bout the w	aste prior to ac	ceptan	ce for treatment?
			Yes		X	No			Unknown at this time
		Mile	estone Number				Due Date		
		N/A					N/A		7
		If ves	or unknown, co	nment	on char	acterization	for treatment		_
		N/A	or unudio wii, or	JII II I I I I I I I I I I I I I I I I	on ondi				
	2.11.3		ther character	ization i	reeded :	bout the w	aste prior to ac	centan	ce for disposal?
			Yes		X	No	F		Unknown at this time
		Mile	estone Number				Due Date		
		N/A					N/A		
		If yes	or unknown, co	mment	on char	acterization	for disposal.	-	
		N/A							
2.12	Other l	cey assu	mptions related	d to stor	age, inv	entory, and	d generation inf	ormati	ion:

The waste was generated during replacement of a vessel and renovation of the E-Cell floor. Concrete debris was placed in a metal box that is now stored in F-Cell. The chemical processing performed in E Cell was primarily treatment of disolved fuel cladding waste. Based on the Pu content and the radiological characteristics of the waste (emits approximately 500 rad/hr), it is categorized as remote-handled TRU. The confidence level is high. No additional waste will be stored at this location. PUREX is under long term surveillance and maintenance under Section 8 of the TPA.

3.0 WASTE MINIMIZATION

Has	a waste minimizat	tion assessment b	een compl	eted for this st	ream?
	Yes	×	No		
If yo	es, provide date asse	essment conducted	i :		N/A
If ye	s, provide documer	nt number or other	r identifica	tion:	
N/A					
If no	, provide date asses	ssment will be cor	npleted, or	r if waste strear	n is no longer generated, then indicate N/A:
N/A					
volu mat		gation and avoida			methods to reduce stitution of less-toxic
Was	te minimization sc	hedule			
3.3.1	Reduction ac	hieved during ca	lendar yes	ır 2002 (volum	e or mass)
	0.000	m3			
3.3.2	Projected fut	ure waste volume	e reduction	ns .	
	Year	m³	and/or	kg	
	2003	0.000]		
	2004	0.000			
	2005	0.000			
	2006	0.000	1		
	2007	0.000			

3.3.3 Bases and assumptions used in above estimates:

Total

The facility is inactive. No additional waste will be generated.

0.000

1.0 WASTE STREAM IDENTIFICATION

1.1	Treatal	bility G	roup Name:								PUREX Storage Tunnels
1.2	Descrip	otion of	waste (list WSR	d numl	ers fo	or this waste str	am, as	applicab	le)		
	Waste r Facility	eceipt i	ry large equipme nto the TSD unit Permit, Attachm TRU and TRUN	began i ent 28,	n 196	0. The TSD unit	waste i	inventory	list is conta	ined in the F	Tanford
			2	2.0 WA	STE	INVENTORY	AND	GENEF	ATION		
2.1			nventory for thi s sum of locatio			,	• •				
	Total vo	olume (cubic meters):			2,800.0	00				
2.2		_	eration projection this treatability	•		r year: [equals	annual	sums of l	ocation-spe	efie	
	Ye	ear	m³	and/or		kg					
	200	03	0.000								
	200		0.000		<u> </u>						
	200		0.000		<u> </u>						
	200		0.000								
	200	U7 :	0.000		-						
	То	tal	0.000		L						
				3.0 W	ASTE	STREAM CH	IARAG	CTERIZ	ATION		
3.1	Radiolo	ogical C	Characteristics								
	3.1.1	Mixe	d waste type:			High-level		\boxtimes	Transuranic	ً ا	Low-level
	3.1.2	Hand	iling (as packag	e conte	nts wo	uld need to be l	andled	during t	reatment):		
			Contact-handled		X	Remote-handle	d				
	3.1.3		ments on radiol ment concerns o	•		. •	_		rmation on	content,	
		Varie	s from medium	(∼l rad⁄	hr) to	very high(>100	0 rad/hr	·).			
3.2	Physic	cal Fo	rm								
	3.2.1	Phys	ical form of the	waste:							
		X	Solid	X	Liqui	d		Semi-so	lid	☐ Debri	s
			Other (Describe	in com	nents.)					
	3.2.2	Com	ments on physic	al form	1						

There are a number of items in the tunnels with different types of waste, but the large failed stainless steel and iron vessels and equipment constitute the bulk of the waste.

3.3.1	W H	stewater/non-wastewat	er under KCKA			
		Wastewater	Non-wastewater	Uni	known	
3.3.2	Reg	ulated constituents tab	le including treatment re	equirements and U	HCs, if applie	cable.
EPA Stat Numb	e	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatme Concentratio Standard or Technology Co
D001		Oxidizer	Low TOC	**	Process knowledge	Deact 40 CFR 268.48 ***
D005		Barium	Barium	100-1000 ppm **	Analytical/ Process knowledge	21 mg/l TCLP & Deact 40 CFR 268.48 ***
D006		Cadmium	Cadmium	••	Analytical/ Process knowledge	0.11 mg/l TCLP & Deact 40 CFR 268.48 ***
D007		Chromium	Chromium	5-1000 ppm **	Analytical/ proccess knowledge	0.60 mg/l TCLP & Deact 40 CFR 268.48 ***
D008		lead	Rad lead solids	**	Process knowledge	MACRO
D009		Mercury	High Hg Inorganic	**	Process knowledge	RMERC
D010		Selenium	Selenium	**	Process knowledge	5.7 mg/l TCLP & Deact 40 CFR 268.48 ***
D011		Silver	Silver	5-1000 ppm **	Process knowledge	0.14 mg/l TCLP & Deact 40 CFR 268.48 ***
WT02		Toxic (mineral oil)		**	Process knowledge	N/A
		egory marked N/A if no ex for the waste number (40 C	xisting subcategory adequate	y describes this wast	e, or if there are	no defined
** If wa	aste is :	not consistent in concentra	tion, this may not apply. De	scribed in Section 3.3	3.6.	
		st be determined for the wo	aste in Tunnels I and 2 unles as hazardous debris.	s managed as hazard	ous debris. DOE	
3.3.3		any waste numbers fro ts established LDR tres	om Section 3.3.2 for whic atment standards.	h the waste stream	n aiready	
		List:				

	3.3.4	Does this was	ste stre	eam contain PCBs?					
		☐ Yes		⊠ No		[Unknown		
		If no or unkno	own, sl	cip to Section 3.3.5.					
		3.3.4.1	Is wa	iste stream subject to	TSCA regul	ations fo	r PCBs?		
				Yes		No			Unknown
		3.3.4.2	Indic	ate the PCB concent	tration range.				
				< 50 ppm		≥ 50 pp	m		Unknown
	3.3.5	What is the c	onfide	nce level for the reg	ılated constit:	uents?			
		☐ Low		⊠ Med	ium	[High		
	3.3.6	Comments or	n regul	lated constituents an	d wastewater.	/non-was	tewater category	:	
		containers/equiversidue is from	uipmer m nitric	epending on waste ite nt. (Not all of the was c acid. The Cd, Pb an d and recycled when t	ste would have id Hg are large	e all wast ely preser	e codes). D001 ni nt as pure material		
				4.0 WASTE	STREAM 7	[REAT]	MENT		
4.1	Is this w	aste stream cu	rrently	y being treated?					
	☐ Yes	i		⊠ No					
	If yes, pr	rovide details:		N/A					
4.2				he appropriate box in s, including LDR tre	-	•	for treating this	waste	stream
	☐ No	treatment requi	ired (sk	cip to Section 5.0)					
	☐ Tre	ating or plan to	treat c	on site					
	Tre	ating or plan to	treat c	off site					
	▼ Tre	atment options	still be	eing assessed					
4.3	Planned	treatment me	thod, f	acility, extent of tres	tment capaci	ty availal	ble:		
	N/A								
4.4	Treatme	ent schedule in	format	tion:					
	Waste w	ill be dispositio	ned or	n a schedule consister	t with the PU	REX Plan	nt treatability grou	p.	
4.5	Applical	ble Tri-Party A	\green	nent treatment miles	tone numbers	(includi	ng permitting):		
	Milesto	ne Number			Due Date				
	N/A				N/A				

4.6	Proposed new Tri-Party Agreement treatment milestones:
	None.
4.7	If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?
	☐ Yes ☐ No 🔀 Unknown
	If yes, describe: N/A based on 4.2.
4.8	List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.
	None.
4.9	Key Assumptions:
	Closure of the PUREX Storage Tunnels will be coordinated with disposition of the PUREX Plant.
	5.0 WASTE STREAM DISPOSAL
	After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):
	Waste from the PUREX Storage Tunnels will be dispositioned in the same manner and location as the PUREX

Plant. A decision on the Canyon Disposition Initiative will affect the final disposition of the PUREX Plant and its contents, including the contents of the PUREX Storage Tunnels.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	PUREX Stor	rage Tunnels	Waste Stream	Tunnels 1 and 2
	Treata	bilitiy Group Nam	ie:	PUREX Storage	Tunnels	
1.2	Applic	able profile numb	er(s) for this w	aste stream:		
	N/A					
1.3	Waste	stream source info	rmation			
	1.3.1	General descri maintenance w		aste (e.g., spill clean	-up waste, discarded	lab materials,
			els with lead co			aterial varies from very large wder in canisters from B-Cell in
	1.3.2	History of how	and where the	e waste was/is gene	rated:	
		operating positi The railcar was	on in the canyo then pushed in	on using the bridge of to the tunnel. How	crane and set onto a rai	quipment was removed from its ilcar prepared for the "burial". Hanford Facility locations, he tunnels because it is so highly
	1.3.3	Source of the r	egulated const	iltuents:		
						ever, waste from other Hanford as been placed in the tunnels.
	1.3.4	Source of the i	nformation (e.	g., analytical data,	process knowledge, d	ocument number, etc.)
		Analytical data	and process ki	nowledge.		
	1.3.5	Additional not	es:			
		None.				
		2.0 WASTE STI	REAM STO	RAGE, INVENTO	ORY, AND GENER	ATION INFORMATION
	(NOT	E: For waste in sa	tellite accumul	ation areas and 90-d	lay accumulation areas	, skip to Section 2.6.)
2.1	Curre	ent storage method				
		Container (pad)		Container (covere	xd) 🔲	Container (retrievably buried)
		Tank		DST		SST
	×	Other (explain):		rail cars in undergro D unit.	ound tunnel; permit iss	sued as a final status miscellaneous
	2.1.1	How was the v	vaste managed	prior to storage?		
				ant canyon failed an sent to waste storag		innel. The waste from the 324

		eframe when w	aste was	placed to	storage?			
	June 1960 to J	une 1996.						
2.2	Storage inven	tory locations:						
	Building/Roor	n Number		· · · · · · · · · · · · · · · · · · ·	Number of	Containers/Tanks		
	Purex tunnel #	1			8 rail cars			
	Purex tunnel #	2			28 rail cars	-		
2.3	Current store	d inventory for	this stre	am.				
	Total volume (cubic meters):		2,8	300.000			
	Date of invente	ory values:		12/31/2	002			
	Comments on	waste inventory:						
	Volume is estin	mated.						
2.4	Is storage cap	acity at this loca	ition pot	entially a	n issue for	this waste stream?	•	
	☐ Yes		\boxtimes	No				
	If yes, what is	the total estimate	ed storage	e capacity	?	N/A		
	When is this ca	pacity expected	to be rea	ched?		N/A		
	Bases and assu	mptions used:						
	N/A							
2.5	Planned storag	ge areas for this	waste:					
	Current	Location .	П	CWC		П	DST	
	_	rea(s) (list):				<u>.</u>		
	☐ None	,,,,						
2.6	Fetimeted sen	aration prolecti	on by oo	landar va	ar (inaluda	s waste in satellite	and 00 days	
2. 0	accumulation		on by ca	iciidai ye	m (INCIDUE	a music III suicillié	and 90-day	
	Year	m ³	and/or	kį	ş			
	2003	0.000						
	2004	0.000	_					
	2005	0.000						
	2006	0.000	4					
	2007	0.000	4	<u></u>				
	Total	0.000		L				

Assessment has been completed.

A P. C. C									
Acc-3	EC-01-01	16, Oct 2001 (DC	DE assessn	nent)		10/3	30/2001		
A	.ssessme	nt has been sch	eduled.	Schedule	ed date:				
	ther. Exp	plain:							
Applica	ble Tri-l	Party Agreeme	ent miles	tones re	lated to sto	rage at this loc	ation:		
	ne Numb			.01105.10	Due Date	_			
N/A					N/A				
				· - · · · · · · · · · · · · · · · · · ·			-4	fuam	this ston
		been any non-j ronment?	permitted	ı, un x ut	norizea reie	erse of this wa	ste stre	MINI TENTI	titis stor
	es		X	No					
If yes, s	ummariz	e releases and	quantitie:	s and pro	vide date:				
N/A									
Are the	re any p	lans to submit	requests	for var	iances or ot	ther exemption	ıs relat	ed to stor	age?
	es		- X	No		-			
		>***							
If yes, e	xpiain:	N/A							
If yes, e	xpiain: terizatio								
Charac	terizatio	חי	ization n	eeded al	bout the wa	ste prior to ac	ceptan	ce for sto	rage?
-	terizatio		ization n		bout the wa	ste prior to ac	ceptan		r age? vn at this
Charac	Is furt	on ther character Yes	ization n				ceptan		
Charac	Is furt	on ther character	ization n			Due Date	ceptan		
Charac	Is furt	on ther character Yes	ization n				ceptan		
Charac	Is furd Miles N/A If yes	on ther character Yes		×	No	Due Date	ceptan		
Charac	Is furt Miles N/A	on ther character Yes stone Number		×	No	Due Date	ceptan		
Charac	Miles N/A If yes N/A	on ther character Yes stone Number	omment (on chara	No cterization f	Due Date N/A For storage.	ceptan	Unknov	vn at this
Charace 2.11.1	Miles N/A If yes N/A	ther character Yes stone Number or unknown, co	omment (on chara	No cterization f	Due Date N/A For storage.	ceptan	Unknov	vn at this
Charace 2.11.1	Miles N/A If yes N/A	ther character Yes stone Number or unknown, co	omment (on chara	No cterization f	Due Date N/A For storage. ste prior to ac	ceptan	Unknov	vn at this
Charace 2.11.1	Miles N/A If yes N/A Is furt	ther character Yes stone Number or unknown, co	omment (on chara	No cterization f	Due Date N/A For storage.	ceptan	Unknov	vn at this
Charace 2.11.1	Miles N/A If yes N/A Is furt	ther character Yes stone Number or unknown, co	omment o	on characteristics	no cterization f	Due Date N/A For storage. Ste prior to ac Due Date N/A	ceptan	Unknov	vn at this
Charace 2.11.1	Miles N/A If yes N/A Is furt	ther character Yes stone Number or unknown, co	omment o	on characteristics	no cterization f	Due Date N/A For storage. Ste prior to ac Due Date N/A	ceptan	Unknov	vn at this
Charace 2.11.1	Miles N/A If yes N/A If yes N/A If yes N/A	ther character Yes stone Number or unknown, co	omment o	on characteristics	No cterization f	Due Date N/A For storage. Ste prior to ac Due Date N/A For treatment.	ceptan	Unknov	atment?
Charace 2.11.1	Miles N/A If yes N/A If yes N/A If yes N/A	ther character Yes stone Number or unknown, co	omment o	on characteristics	No cterization f	Due Date N/A For storage. Ste prior to ac Due Date N/A For treatment.	ceptan	Unknov	atment? at this ti

		Milestone Nu	mber		Du	e Date	
		N/A			N/A	A	
		If yes or unknown	own, comment o	n characte	rization for disp	oosal.	
		N/A					
2.12	Other	key assumptions	related to stora	ge, invent	ory, and genera	ation information	n:
	the sam		same manner as				the tunnels will be handled at ability group and will be
				3.0 WA	STE MINIMI	IZATION	
3.1	Has a v	vaste minimizati	on assessment b	een comp	leted for this st	ream?	
		Yes	X	No			
	If yes, 1	provide date asses	ssment conducted	i:		N/A	
	If yes, j	provide document	t number or other	r identifica	ation:		
	N/A						
	If no, p	rovide date assess	sment will be cor	npleted, o	r if waste stream	n is no longer ger	nerated, then indicate N/A:
	N/A						
3.2	Provid	e details of curre	nt and proposed	methods	for minimizing	the generation	of this
		(e.g., process che	-		-		
	materi	through segregs uls):	KION ANG AVOIGA	nce or cor	nmingung, suo	stitution of less-1	Oxic
	N/A						
3.3	Waste	minimization sch	edule				
	3.3.1	Reduction ach	ieved during ca	lendar ye:	ar 2002 (volum	e or mass)	
		0.000	m3				
	3.3.2	Projected futu	re waste volum	reductio	ns		
		Year	m³	and/or	kg		
		2003	0.000				
		2004	0.000				
		2005	0.000				
		2006	0.000				

3.3.3 Bases and assumptions used in above estimates:

0.000

0.000

2007

Total

No waste is expected to be generated. However, the PUREX StorageTunnels do remain active as a final status TSD unit and might receive additional waste in the future.

1.0 WASTE STREAM IDENTIFICATION

1.1	Treatab	ility Group Name:					Purgewater
1.2	Descript	ion of waste (list WSF	ld numbers for this v	aste stream, as	applicable)		
	Groundy	vater contaminated wit	h uranium, technetium	, carbon tetrachi	loride, and nitrates.		
			2.0 WASTE INVE	NTORY AND	GENERATION		
2.1		total inventory for th Equals sum of location	•	▼ -			
		lume (cubic meters):	•	3,700.000			
2.2		ed generation projecti ets for this treatability	•	(equals annual	sums of location-spe	efic	
	Yea	ır m³	and/or kg				
	200	2,500.000					
	200	2,500.000					
	200	5 2,500.000					
	200	5 2,500.000					
	200	7 2,500.000	l				
	Tot	al 12,500.000					
			3.0 WASTE STRE	AM CHARA	CTERIZATION		
3.1	Radiolo	gical Characteristics					
	3.1.1	Mixed waste type:	High-	evel	Transuranic	×	Low-level
	3.1.2	Handling (as packag	ge contents would nee	d to be handled	during treatment):		
		Contact-handled	l 🗀 Remo	te-handled			
	3.1.3		logical characteristic caused by radiation,			content,	
		None.					
3.2	Physic	al Form					
	3.2.1	Physical form of the	waste:				
	2,2,1	□ Solid	⊠ Liquid		Semi-solid	☐ Debris	
			Z Elquio		Sciii-soild		
		Other (Describe	in comments.)				
	3.2.2	Comments on physic	cal form:				
		Waste stream is gene	rated from groundwat	er sampling, we	ll maintenance, well		

3.3.1	Wa	stewater/non-wastewate	er under RCRA			
	X	Wastewater	☐ Non-wastewater	Unk	nown	
3.3.2	Re	gulated constituents tabi	e including treatment re	equirements and U	HCs, if appli	cable.
EP. Sta Num	te	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatm Concentration Standard of Technology C
D007		Chromium	None	>5.0 mg/l	anlalytical data	2.77 mg/l and me 268.48.
D019		Carbon Tetrachloride	N/A	**	analytical data	0.057 mg/l and m 268.48.
F001		Carbon Tetrachloride	Spent Solvent	**	analytical data	0.057 mg/l
F002		Methylene Chloride	Spent Solvent	**	analytical data	0.089 mg/l
F003		Methanol	Spent Solvent	**	analytical data	5.6 mg/l
F004		o-Cresol, p-cresol, m-cresol	Spent Solvent	**	analytical data	0.11 mg/l
F005		Methyl Ethyl Ketone	Spent Solvent	**	analytical data	0.28 mg/l
** If v	egories vaste is codes :	tegory marked N/A if no ex for the waste number (40 C not consistent in concentral are assigned based on design NR-2 Operable Units.	FR 268.40).	scribed in Section 3.3.	.6.	
3.3.3	Lis	t any waste numbers fro ets established LDR trea		h the waste stream	already	
		List:				
	П	No LDR treatment requ	ired (e.g. TRUM waste d	lestined for WIPP, e	xclusion, etc.)
		-				

	3.3.4	Does this was	ste str	eam contain PC	Bs?					
		☐ Yes		X	No			Unknown		
		If no or unkn	own, s	kip to Section 3.	.3.5.					
		3.3.4.1	Is wa	aste stream sub	ject to TSCA	regul	ations for	PCBs?		
				Yes			No			Unknown
		3.3.4.2	Indi	cate the PCB co	ncentration	range.	•			
				< 50 ppm			≥ 50 ppπ	1		Unknown
	3.3.5	What is the	confide	ence level for th	e regulated (constit	uents?			
		☐ Low			Medium		X] High		
	3.3.6	Comments o	n regu	lated constitue	nts and wast	ewater	/non-waste	ewater categor;	y:	
				vailable for all g indwater from a						
				4.0 W	ASTE STRI	EAM '	TREATM	IENT		
4.1	Is this	waste stream ci	urrent	ly being treated	1?					
	X Y	es			No		•			
	If yes, p	provide details:		Treated vi	ia solar evapo	ration.				
4.2				the appropriate				or treating this	wast	e stream
				kip to Section 5			,			
	∑ Tr	eating or plan t	o treat	on site						
	☐ Tr	eating or plan t	o treat	off site						
	Tı	reatment options	s still t	eing assessed						
4.3	Planne	d treatment m	ethod,	facility, extent	of treatment	capac	ity availab	le:		
	Treated	l via solar evapo	oration	at the PSTF.						
4.4	Treatm	nent schedule i	nform	ation:						
	Treatm	ent is ongoing.								
4.5	Applic	able Tri-Party	Agree	ment treatmen	t milestone n	umber	rs (includir	ng permitting):		
	Miles	tone Number			Due	Date				
	N/A				N/A					
4.6	Propos	sed new Tri-Pa	rty A2	reement treatm	nent milestor	ies:				
	N/A	-								

4.7	If treating or planning and/or selecting the	-	•	or will waste :	minimization l	e addressed in d	eveloping
	☐ Yes		\boxtimes	No		Unknown	
	If yes, describe:	N/A					
4.8	List or describe trea needed for treatmen			itions, rulem	aking petitions	, and case-by-cas	se exemptions
	N/A						
4.9	Key Assumptions:						
	The Hanford Site pur may be updated.	gewater manag	ement pla	nn is being re-	negotiated, as	a result of the neg	otiations, information
			5.0 W	ASTE STR	EAM DISPO	SAL	
	After treatment, how		stream	be disposed o	f (include loca	tions, milestone r	numbers, variances

As a result of solar evaporation, only residues and sludges remain in the modular tanks. When the PSTF is taken out of service, the residues/sludges remaining in the modular tanks will be removed, treated as necessary to meet the ERDF Waste Acceptance Criteria and disposed of at ERDF.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name: 60	00 Area P	PSTF	Waste Stre	am:	Purgewater Modu-Tanks
	Treata	bilitiy Group Name:		Purgewater			
1.2	Applic	able profile number(s)	for this	waste stream:			
	Waste !	Profile Sheet, ERC CC	¥ 0846	22.			
1.3	Waste	stream source informs	tion				
	1.3.1	General description maintenance waste)		aste (c.g., spill clean-	up waste, discarde	ed lab mate	erials,
		Purgewater.					
	1.3.2	History of how and	where th	ie waste was/is gener	ated:		
		Purgewater generate well maintenance.	d from p	ump and treat operation	ons, well drilling, gr	roundwater	sampling activities, and
	1.3.3	Source of the regula	ted cons	tituents:			
		Groundwater is conta the soil during past F			, and radionuclides	s from proc	ess water discharged to
	1.3.4	Source of the inform	ıation (e	g., analytical data, p	rocess knowledge,	document	number, etc.)
		Analytical data and p	rocess k	nowledge.			
	1.3.5	Additional notes:					
		Purgewater accounte	d for in t	his stream is collected	from all across the	Hanford S	ite.
	2	.0 WASTE STREA	M STOI	RAGE, INVENTO	RY, AND GENE	RATION	INFORMATION
	(NOTE	For waste in satellite	accumul	ation areas and 90-day	y accumulation area	ıs, skip to S	Section 2.6.)
2.1	Curren	t storage method					
		Container (pad)		Container (covered)		Container	(retrievably buried)
	Г	ank		DST		SST	
	X	Other (explain):		ove ground modular c ler interim status as S		en to the a	tmosphere, permitted
	2.1.1	How was the waste r	nanaged	prior to storage?			
	Waste is	generated, placed into	containe	rs or directly into tank	er trucks, and trans	ferred to th	e PSTF.
	2.1.2	Timeframe when wa	ste was j	placed to storage?			
	The faci	lity is a solar evaporation	on unit th	at has been in service	since 1991.		

Build	Re IIIACUU	ory locations:			
	ing/Room	Number		Numbe	r of Containers/Tanks
PSTF	F Unit #1			1	
Curre	nt stored	inventory for t	his strea	m.	
Total 7	volume (c	ubic meters):		3,700.000	1
Date o	of invento	ry values:		12/31/2002	
Comm	nents on v	vaste inventory:			
Waste	is directl	y discharged to t	he purge	water storage an	nd treatment facility.
Is stor	rage caps	city at this locat	tion pote	ntially an issue	for this waste stream?
П	Yes	·	[X]	No	
If ves.	what is t	he total estimate	d storage	capacity?	N/A
•		pacity expected t			N/A
		mptions used:			
N/A	una 12054.				
	Current 1	e areas for this	waste.	CWC	□ DST
\boxtimes	**		L	CWC	
س	None	rea(s) (list):			
_					
	ated general nulation :		on by ca	lendar year (inc	ludes waste in satellite and 90-day
	Year	m ³	and/or	kg	
2	2003	2,500.000			
2	2004	2,500.000			
2	2005	2,500.000			
1 2	2006	2,500.000		<u> </u>	
	2007	2,500.000			
	Total	12,500.000]
	Storage	Compliance Ass	essment	information:	
DOE			nnleted.		
DOE	Assessm	ent has been cor	p.o		
X	Assessm ument Nur				Date
Doc	ument Nur				Date 11/01/2000

	· · · · · · · · · · · · · · · · · · ·			Due Da	ite		
N/A				N/A			
	re ever been any non-p the environment?	permitte	d, una	uthorized re	elease of this wa	ste stre	am from this storage
_ Y	es es	\boxtimes	No				
f yes, s	ummarize releases and	quantitie	s and p	provide date:	:		
N/A							
Are the	re any plans to submit	request	s for v	ariances or	other exemption	ns relate	ed to storage?
_ ,	/es	\boxtimes	No				
f yes, e	explain: N/A						
Charac	terization						
2.11.1	Is further character	ization n	eeded	about the w	aste prior to ac	ceptanc	e for storage?
	Yes		X	No			Unknown at this time
	Milestone Number				Due Date		
	Minestolic Mellicei						
	N/A		•		N/A		
	N/A	omment «	on cha	racterization	N/A		
		omment :	on cha	racterization	N/A]
2.11.2	N/A If yes or unknown, co				N/A for storage.	ceptanc	e for treatment?
2.11.2	N/A If yes or unknown, co				N/A for storage.	_	e for treatment? Unknown at this time
11.2	N/A If yes or unknown, con N/A Is further character		eeded	about the w	N/A for storage.	_	
.11.2	N/A If yes or unknown, con N/A Is further characterial Yes Milestone Number		eeded	about the w	N/A for storage. aste prior to ac Due Date	_	
.11.2	N/A If yes or unknown, con N/A Is further characterical Yes		eeded	about the w	N/A for storage.	_	
2.11.2	N/A If yes or unknown, con N/A Is further characterial Yes Milestone Number	ization n	eeded	about the w	N/A for storage. /aste prior to ac Due Date N/A	_	
2.11.2	N/A If yes or unknown, con N/A Is further charactering Yes Milestone Number N/A	ization n	eeded	about the w	N/A for storage. /aste prior to ac Due Date N/A	_	
2.11.2	N/A If yes or unknown, con N/A Is further charactering Yes Milestone Number N/A If yes or unknown, con	ization n	eeded	About the w	N/A for storage. sate prior to ac Due Date N/A for treatment.		Unknown at this time
	N/A If yes or unknown, con N/A Is further characterically Yes Milestone Number N/A If yes or unknown, con N/A	ization n	eeded	About the w	N/A for storage. sate prior to ac Due Date N/A for treatment.	ceptano	Unknown at this time
	N/A If yes or unknown, con N/A Is further charactering Yes Milestone Number N/A If yes or unknown, con N/A Is further charactering N/A	omment	eeded	about the w No racterization about the w	N/A for storage. sate prior to ac Due Date N/A for treatment.	ceptano	Unknown at this time
	N/A If yes or unknown, con N/A Is further charactering Yes Milestone Number N/A If yes or unknown, con N/A Is further charactering Yes	omment	eeded	about the w No racterization about the w	N/A for storage. Paste prior to ac Due Date N/A for treatment.	ceptano	Unknown at this time

this MLLW.

2.12	Other	key assumptions	related to storag	e, invente	ory, and generation information:
	Project	t is evaluating send	ling purgewater t	o ETF for	treatment and closing the PSTF.
				3.0 WA	STE MINIMIZATION
3.1	H25 2	waste minimizatio	n assessment be	en compl	eted for this stream?
		Yes	X	No	
	If yes,	provide date asses	sment conducted	:	N/A
	If yes,	provide document	number or other	identifica	tion:
	N/A				
	If no, p	orovide date assess	ment will be con	npleted, o	r if waste stream is no longer generated, then indicate N/A:
	2003.				
3.2	Daniela	la datalla of on muo		m othoda	for minimizing the generation of this
	volum materi Hanfor	e through segrega ials): rd contractors are c	tion and avoida	nce of cor ing zero p	te LDR waste, methods to reduce nmingling, substitution of less-toxic urge and near zero purge sampling techniques to minimize the ling activities. There are several regulatory and technical
		that must be addre			
3.3	Waste	minimization sch	edule		
	3.3.1	Reduction ach	ieved during cal	lendar ye:	ar 2002 (volume or mass)
		0.000	m3		
	3.3.2	Projected futu	re waste volume	reductio	ns ,
		Year	m³	and/or	kg
		2003	0.000		
		2004	0.000		
		2005	0.000		
		2006	0.000		
		2007	0.000		
		Total	0.000]	

3.3.3 Bases and assumptions used in above estimates:

No projections at this time.

1.0 WASTE STREAM IDENTIFICATION

1.1	Treatab	ility G	roup Name:								SST Waste
1.2	Descrip	tion of	waste (list WSR	d numbe	rs fo	r this waste st	ream, as	applicable)			
	Basic ad	ueous ited fro	slurry with layers m the neutralizat	of saltca	ke ar	nd/or sludge.	Sludge is	defined a solid	s (i.e., hydro s salts formo	ous metal or d from the	kides)
			2	2.0 WAS	TE	INVENTOR	RY AND	GENERATI	ON		
2.1	Current areas).	total i [Equal	al inventory for this waste stream (stored waste only, not accumulation uals sum of location-specific data sheets for this treatability group.]								
		•	cubic meters):			119,300					
2.2		_	eration projection this treatability		enda	r year: [equal	s annual	sums of locatio	n-specfic		
	Ye	ar	m³	and/or		kg					
	200		0.000		_						
	200		0.000		<u>_</u>						
	200		0.000		\vdash					·	
	200		0.000		\vdash						
	200		0.000		\models						
	Tot	tal	0.000	ļ	<u></u>						
				3.0 WA	STE	STREAM (CHARAC	CTERIZATIO	ON		
3.1	Radiolo	gical (Characteristics								
	3.1.1	Mix	ed waste type:		X	High-level		☐ Trans	uranic		Low-level
	3.1.2	Han	dling (as packag	e conten	ls wo	uld need to b	e handled	during treatm	ient):		
			Contact-handled		X	Remote-han	dled				
	3.1.3		ments on radiol						on on conte	ent,	
		SST 1291	System wastes c , 137Cs, 137mBa	ontain the 1, 151Sm	foll , 238	owing major r Pu, 240Pu, 24	adionuclio 1Pu, 241	des: 3H, 14C, 9 Am, and 242An	90SR, 90Y, n.		
3.2	Physic	al Fo	rm								
	3.2.1	Phys	ical form of the	waste:							
			Solid		Liqui	d	X	Semi-solid		Debris	
			Other (Describe	in comm	ents.)					
	2 2 2	Con	mante an nhyeid	al form:							

The major constituents are water and sodium salts of aluminate, nitrate, nitrite, phosphate, hydroxide, carbonate, and sulfate. Some calcium and potassium salts are also present. Chemically complexed waste in the DSTs contain sodium salts of chelating agents ethylenediamine-tetraacetic acid and n-hydroxyethylenediamine-tetraacetic acid. There may also be detectable concentrations of halogenated and nonhalogenated organic compounds and heavy metals such as lead, chromium and cadmium.

3.3	Regula	ated constituents and wastewater/non-wastewater category									
	3.3.1	Wastewater/non-waste	Wastewater/non-wastewater under RCRA								
		Wastewater	X	Non-wastewater	Unknown						
	3.3.2	Regulated constituents	table inclu	ding treatment requir	ements and UHCs. if applicable						

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitability	Low TOC ignitable Char. Liquid	(4)	(4)	DEACT (2); RORGS; COMBST
D002	Corosivity	(1)	(4)	(4)	HLVIT
D003	Reactivity	Reactive Cyanides	(4)	(4)	590/30 mg/kg
D004	Arsenic	(1)	(4)	(4)	HLVIT
D005	Barium	(1)	(4)	(4)	HLVIT
D006	Cadmium	(1)	(4)	(4)	HLVIT
D007	Chromium	(1)	· (4)	(4)	HLVIT
D008	Lead	(1)	(4)	(4)	HLVIT
D009	Mercury	(1)	(4)	(4)	HLVIT
D010	Selenium	(1)	(4)	(4)	HLVIT
D011	Silver	(1)	(4)	(4)	HLVIT
D018	Benzene	N/A	(4)	(4)	10 mg/kg (2)
D019	Carbon Tetrachloride	N/A	(4)	(4)	6.0 mg/kg (2)
D022	Chloroform	N/A	(4)	(4)	6.0 mg/kg (2)
D028	1,2-Dichloroethane	N/A	(4)	(4)	6.0 mg/kg (2)
D029	1,1-Dichloroethylene	N/A	(4)	(4)	6.0 mg/kg (2)
D030	2,4-Dinitrotoluene	N/A	(4)	(4)	140 mg/kg (2)
D033	Hexachlorobutadiene	N/A	(4)	(4)	5.6 mg/kg (2)
D034	Hexachloroethane	N/A	(4)	(4)	30 mg/kg (2)
D035	Methyl Ethyl Ketone	N/A	(4)	(4)	36 mg/kg (2)
D036	Nitrobenzene	N/A	(4)	(4)	14 mg/kg (2)
D038	Pyridine	N/A	(4)	(4)	16 mg/kg (2)
D039	Tetrachloroethylene	N/A	(4)	(4)	6.0 mg/kg (2)
D040	Trichloroethylene	N/A	(4)	(4)	6.0 mg/kg (2)
D041	2,4,5-Trichlorophenol	N/A	(4)	(4)	7.4 mg/kg (2)
D043	Vinyl Chloride	N/A	(4)	(4)	6.0 mg/kg (2)
F001	1,1,1-Trichloroethane	Spent Solvent	(4)	(4)	6.0 mg/kg
F002	Methylene Chloride	Spent Solvent	(4)	(4)	30 mg/kg
F003	Acetone	Spent Solvent	(4)	(4)	160 mg/kg
F003	Methyl Isobutyl Ketone	Spent Solvent	(4)	(4)	33 mg/kg
F004	Cresols	Spent Solvent	(4)	(4)	5.6 mg/kg (o, m, &p); 11.2 mg/kg (mixed)
F005	Methyl Ethyl Ketone	Spent Solvent	(4)	(4)	36 mg/kg

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
WP01	Persistent wastes, Extremely hazardous wastes	N/A	(4)	(4)	NONE (3)
WP02	Persistent Dangerous wastes	N/A	(4)	(4)	N/A
WT01	Toxic Dangerous Wastes, Extremely Hazardous Wastes	N/A	(4)	(4)	NONE (3)
WTO2	Toxic Dangerous Wastes, Dangerous Wastes	N/A	(4)	(4)	N/A

^{*} LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

- 1) Radioactive high-level wastes generated during the reprocessing of fuel rods.
- 2) and meet 40 CFR 268.48.
- 3) Mixed extremely hazardous wastes can be land-disposed in Washington State in DOE facilities in accordance with RCW 70.105.050(2).
- 4) See Section 3.3.6.

3.3.3	List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.								
	List:								
	☐ No LDI	No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)							
	None (i		nbers of this waste stream still r	equire					
3.3.4	Does this wa	ste stream contain PCBs?							
	Yes	☐ No	Unk	nown					
	If no or unkn	nown, skip to Section 3.3.5.							
	3.3.4.1	ls waste stream subject to	TSCA regulations for PCBs?	•					
		☐ Yes	⋈ No	Unknown					
	3.3.4.2	Indicate the PCB concent	ration range.						
		< 50 ppm	≥ 50 ppm	▼ Unknown					
3.3.5	What is the	confidence level for the regi	ilated constituents?						
	Low	⊠ Med	ium High	h					
3.3.6	Comments o	on regulated constituents an	d wastewater/non-wastewater	category:					

^{**} If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

The wastes in the SSTs continues to be sampled, analyzed, and characterized. Waste was sent to the SST System prior to the enactment of LDR requirements, so pertinent LDR requirements were not documented. When SST System waste is transferred to the DST System, known LDR requirements are documented on profile sheets based on the Part A, Form 3, Permit Application for the SST System. Small amounts of PCBs have been detected in some SSTs. Per the guidance in the Toxic Substance Control Act Polychlorinated Biphenyls Hanford Site Users Guide (DOE/RL-2001-50, Rev. 0), the SSTs are not considered to be subject to TSCA at this time.

4.0 WASTE STREAM TREATMENT

4.1	ls this waste stream	currently being treated?						
	☐ Yes	× 7	lo					
	If yes, provide detail	s: N/A						
4.2		Check the appropriate be egulations, including LDR		ns for treating this waste stream				
	☐ No treatment re	quired (skip to Section 5.0)						
	▼ Treating or plan	to treat on site						
	☐ Treating or plan	to treat off site						
	☐ Treatment option	ons still being assessed						
4.3	Planned treatment method, facility, extent of treatment capacity available:							
	Wastes in the SST System will undergo retrieval, treatment, and will be sent to disposal through the DST System. This may include pretreatment, and vitrification, which will destroy or extract organic and cyanide constituents to below treatment standards, neutralize or deactivate dangerous waste, and immobilize toxic metals.							
4.4	Treatment schedule information:							
	The SST Waste will be transferred to the DST System and eventually be treated and disposed of as DST Waste, per TPA milestones.							
4.5	Applicable Tri-Par	y Agreement treatment m	ilestone numbers (incl	uding permitting):				
	Milestone Number		Due Date					
	M-044-00		09/30/1999					
	M-045-00	M-045-00 09/30/2024						
4.6	Proposed new Tri-l	Party Agreement treatmen	t milestones:					
	None.							
4.7		ing to treat on site, was or treatment method?	will waste minimizatio	on be addressed in developing				
	▼ Yes		No	Unknown				
	If yes, describe:	Waste minimization w	ill be addressed during	the retrieval process.				

4.8 List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.

None at this time.

4.9 Key Assumptions:

None.

5.0 WASTE STREAM DISPOSAL

After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):

In accordance with current plans, after transfer to the DST System and subsequent treatment as DST waste, the low-activity waste fraction will be disposed of onsite in a retrievable form. The vitrified HLW fraction will be stored onsite until the Geologic Repository Program is available to receive wastes for disposal.

B-610 SST Waste

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pl	ant name:	SST System		Waste Stres	ım: P	ast Practice Units				
	Treatal	bilitiy Group Na	me:	SST Waste							
1.2	Applica	able profile numl	per(s) for this w	aste stream:							
	N/A										
1.3	Waste	Waste stream source information									
	1.3.1	General descr		ste (e.g., spiil clean-u	p waste, discarde	d lab material	is,				
		The SST system waste consists of double-shell slurry feed, non-complexed waste, concentrated phospha waste, complexant concentrate waste, and dilute complexed waste. This waste is mostly sludge and saltcake waste, with some liquid waste layered over the solids. The IMUST's contain mixed wastes from operational processes.									
	1.3.2	1.3.2 History of how and where the waste was/is generated:									
		This waste was generated as a byproduct of processing spent nuclear fuel, and from a variety of analytical, decladding, and separation processes.									
	1.3.3 Source of the regulated constituents:										
		Hazardous constituents in the waste are from chemicals used during facility operations and maintenance and laboratories, including analytical laboratories, as well as R&D work.									
	1.3.4	Source of the information (e.g., analytical data, process knowledge, document number, etc.)									
		Process knowledge, and Tank Characterization Reports.									
	1.3.5	Additional notes:									
		None.									
	;	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION									
	(NOTE	(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)									
2.1	Curre	nt storage metho	d								
		Container (pad)		Container (covered)		Container (re	etrievably buried)				
	×	Tank		DST		SST					
		Other (explain):									
	2.1.1	How was the	waste managed	prior to storage?							
	Wastes	were managed at	the specific cor	ntributing operating lo	cation.						
	2.1.2										
	From 1	From 1945 to 1980.									

2.2 Storage inventory locations:

Number of Containers/Tanks Building/Room Number 200-W-7 1 Tank 231-W-151 2 Tanks 1 Tank 240-S-302 1 Tank 241-A-302B 241-B-301B 1 Tank 241-B-302B 1 Tank 1 Tank 241-BX-302A 241-BX-302B 1 Tank 241-BX-302C 1 Tank 241-C-301C 1 Tank 241-ER-311A l Tank 241-S-302A and B 2 Tanks 241-SX-302 1 Tank 241-T-301 1 Tank 241-TX-302A and B 2 Tanks 241-TX-302BR l Tanks 241-TX-302X 1 Tank 2 Tanks 241-TY-302A and B 1 Tank 241-Z-8 242-T-135 1 Tank 242-TA-R1 1 Tank 244-BXjR (Vault) 4 Tanks 244-TXR (Vault) 3 Tanks 244-UR (Vault) 4 Tanks 0 Tanks 241-A-431 (building) 241-C-801 (building) 0 Tanks 241-SX-401 (building) 0 Tanks 241-SX-402 (building) 0 Tanks

2.3 Current stored inventory for this stream.

Total volume (cubic meters):

300.000

Date of inventory values:

12/31/2002

Comments on waste inventory:

The volume is rounded to the nearest 100 cubic meter. Tank volumes are determined by waste level measurements, which are then converted to volumes. Actual tank volume measurements at any given time may differ from the reported values due to factors such as instrumentation errors, uneven surfaces, and calculation rounding errors.

2.4	12 2(0) age cab	acity at this locat	ion hore	and any ar	il 122nc tot fills waste	ori caiir:				
	☐ Yes		×	No						
	If yes, what is	the total estimated	storage	e capacity	?	N/A				
	When is this ca	apacity expected t	o be rea	ched?	1	N/A				
	Bases and assu	mptions used:								
	N/A									
2.5	Planned stora	ge areas for this	waste:							
		Location	П	CWC		П	DST			
		rea(s) (list):								
	☐ None	.,,,								
2.6	Estimated gen	eration projectio	n by cal	lend ar ve:	ar (includes waste in	satellite	and 90-day			
	accumulation	* *	•	•	•					
	Year	m ³	and/or	kį	g					
	2003	0.000								
	2004	0.000								
	2005	0.000								
	2006	0.000		<u> </u>						
	2007	0.000								
	Total	0.000								
2.7	DOE Storage	Compliance Asse	ssment	informati	ion:					
	★ Assessm	nent has been com	pleted.							
	_									
	Document Nur	mber				Date		1		
	A-01-EMD-TI	F-09				12/31/200	01			
	★ Assessm	nent has been sche	eduled.	Scheduled	d date:	See 7	Table 3-4 fo	r list of sched	iuled assessn	nents.
	Other, E	Explain: Also	o assessi	ment, EM	D-TF-2001-04.					
2.8	Annlicable Tr	i_Party Agreeme	nt miles	tones rela	ated to storage at this	s location	ı.			
2.0	Milestone Nun			tones i cu	Due Date	, 10cm1101	•			
	M-045-00	noer			09/30/2024]				
	141-0-13-00				07,30,202	1				
2.9	Has there ever unit to the env	• -	ermitte	d, unauth	orized release of this	waste st	ream from	this storage		
	☐ Yes		X	No						
	If yes, summar	ize releases and q	uantitie	s and prov	vide date:					
	N/A									

2.10	Are the	ere any plans to submit requests fo	or variances or oth	ier exemptions relat	ed to storage?			
	Y	Yes 🕱 N	чo					
	If yes, e	explain: N/A						
2.11	Charac	terization						
	2.11.1	Is further characterization need	led about the was	te prior to acceptanc	e for storage?			
		☐ Yes	No No		Unknown at this time			
		Milestone Number		Due Date				
		N/A		N/A	7			
		10		<u></u>	_			
		If yes or unknown, comment on c	characterization for	r storage.				
		N/A						
	2.11.2	ls further characterization need	led about the wast	e prior to acceptanc	e for treatment?			
		☐ Yes ☐] No	X (Unknown at this time			
		Milestone Number		Due Date	٦			
		M-045-00B M-045-00C		09/30/2006	4			
		M-043-00C	RIPER III	04/30/2002	1			
		If yes or unknown, comment on c	haracterization for	treatment.				
		Waste will be characterized per the Tank Closure Documentation for each unit.						
	2.11.3	Is further characterization need	ed about the wast	e prior to acceptance	e for disposal?			
		Yes] No	∑ ĭ	Jnknown at this time			
		Milestone Number		Due Date	1			
		N/A		N/A				
		If yes or unknown, comment on cl	haracterization for	disposal.				
		It is unknown if further information	on will be needed f	or disposal. Awaitin	g information such as, variance			
		and delisting petitions.						
2.12	Other k	ey assumptions related to storage,	inventory, and ge	neration informatio	n:			
		ill be sampled and characterized per Objectives Supporting Tank Waste I						

3.0 WASTE MINIMIZATION

3.1	1185 A V	vaste minimizatio	n assessment o	een compi	eted for this stream?					
		Yes	X	No						
	If yes, p	orovide date asses	sment conducted	1 :	N/A					
	If yes, p	orovide document	number or other	r identifica	tion:					
	N/A									
	If no, p	rovide date assess	ment will be cor	mpleted, o	if waste stream is no longer generated, then indicate	ate N/A:				
	N/A									
3.2	stream	(e.g., process cha through segrega	nges to reduce	or elimins	for minimizing the generation of this te LDR waste, methods to reduce nmingling, substitution of less-toxic					
	N/A									
3.3	Waste	Waste minimization schedule								
	3.3.1	3.3.1 Reduction achieved during calendar year 2002 (volume or mass)								
		0.000	m3							
	3.3.2	Projected futu	re waste volum	e reductio	ns					
		Year	m³	and/or	kg					
		2003	0.000							
		2004	0.000]						
		2005	0.000							
		2006	0.000	1						
		2007	0.000]						
		Total	0.000]						
	3.3.3	Bases and assu	mptions used i	n above es	timates:					

None.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pl	ant name:	SST Syster	m	Waste Stre	eam:	SST System				
	Treatai	bilitiy Group Name:		SST Waste							
1.2	Applica	able profile number(s) for this	waste stream:							
	N/A										
1.3	Waste s	Waste stream source information									
	1.3.1	General descriptio		aste (e.g., spill clean-up w	vaste, discardo	ed lab mate	rials,				
		phosphate waste, co sludge and saltcake neutralized current	omplexant waste, wi acid waste aste, PURI	sts of double-shell slurry for concentrate waste, and dil th some liquid waste layers as sludge, and contaminated EX acidified sludge, and contaminated esses.	ute complexed ed over the sold water. The 2	d waste. Thi lids. The 24 244-CR Vau	is waste is mostly 4-AR Vault contains It contains neutralized				
	1.3.2	History of how and	where th	e waste was/is generated:	1						
		This waste was generallytical, decladding	byproduct of processing sparation processes.	spent nuclear f	uel, and fror	n a variety of					
1.3.3 Source of the regulated constituents:											
Hazardous constituents in the waste are from chemicals us and laboratories, including analytical laboratories, as well											
	1.3.4	Source of the infor	mation (e.	g., analytical data, proces	process knowledge, document number, etc.)						
		Process knowledge,	and Tank	Characterization Reports.							
	1.3.5	Additional notes:									
		None.									
	2.	0 WASTE STREA	M STOF	RAGE, INVENTORY,	AND GENE	RATION !	INFORMATION				
	(NOTE:	For waste in satellite	e accumul:	ation areas and 90-day acc	umulation area	as, skip to S	ection 2.6.)				
2.1	Current	storage method									
	□ c	ontainer (pad)		Container (covered)		Container	(retrievably buried)				
	Ta	ank		DST	×	SST					
	_ o	ther (explain):									
	2.1.1	How was the waste	managed	prior to storage?							
	Wastes w	vere managed at the st	ecific con	tributing operating facility	<i>I</i> .						

2.1.2 Timeframe when waste was placed to storage?

From 1945 to 1980.

2.2 Storage inventory locations:

Building/Room Number	Number of Containers/Tanks		
241-A	6 Tanks		
241-AX	4 Tanks		
241-B	16 Tanks		
241-BX	12 Tanks		
241-BY	12 Tanks		
241-C	16 Tanks		
241-S	12 Tanks		
241-SX	15 Tanks		
241-T	16 Tanks		
241-TX	18 Tanks		
241-TY	6 Tanks		
241-U	12 Tanks		
244-AR	4 Tanks		
244-CR	4 Tanks		
SST system	Diversion Boxes		
SST system	Valve Pits		
	Catch Tanks		

2.3	Current	stored	invent	ory tor	this st	ream.
-----	---------	--------	--------	---------	---------	-------

Total	VO	lume ((cul	bic	meters):
-------	----	--------	------	-----	--------	----

119,000.000

Date of inventory values:

2.4

N/A

12/31/2002

Comments on waste inventory:

The volume is rounded to the nearest 1,000 cubic meter. Tank volumes are determined by waste level measurements, which are then converted to volumes. Actual tank volume measurements at any given time may differ from the reported values due to factors such as instrumentation errors, uneven surfaces, and calculation rounding errors.

Is storage capacity at t	his location potentially an issue for t	this waste stream?
☐ Yes	⋈ No	
If yes, what is the total estimated storage capacity?		N/A
When is this capacity expected to be reached?		N/A
Bases and assumptions	used:	

2.5	Plan	ned stora	ge areas for this	s waste:					
	X	Current	Location		CWC			DST	
		Other A	rea(s) (list):						
		None							
2.6		_		ion by cal	lend ar ye	ear (includes waste in	satellite s	ind 90-day	
	accu	mulation :	,						
		Year	m³	and/or	k _i	g			
	-	2003	0.000	_					
	-	2004	0.000	-	-				
	-	2005	0.000	4	<u> </u>				
		2006	0.000	4					
		2007	0.000	╛	<u> </u>				
		Total	0.000	_					
2.8	Assessment has been completed. Document Number A-01-EMD-TF-09 Assessment has been scheduled. Scheduled da Other. Explain: Also assessment, A-01-M							able 3-4 for	r list of scheduled assessments
	Mil	estone Num	ber			Due Date			
	м-()45-00		V. 1. V		09/30/2024	1		
2.9	unit	to the envi Yes s, summari	ronment? ze releases and	 quantities	No and prov	orized release of this vide date: r 5 of the LDR Storag		eam from (this storage
2.10						inces or other exemp		ted to store	age?
#11 V		Yes s, explain:	N/A	⊠	No	or vener exemp	viid I tiA		-g

2.11	Charac	Characterization										
	2.11.1	Is further characteriz	ation needed	about the wa	aste prior to ac	ceptan	ce for storage?					
		☐ Yes	X	No			Unknown at this time					
		Milestone Number			Due Date							
		N/A			N/A							
		If yes or unknown, cor	If yes or unknown, comment on characterization for storage.									
		N/A										
	2.11.2	ls further characteriz	ation needed	about the wa	aste prior to ac	ceptan	ce for treatment?					
		⊠ Yes		No			Unknown at this time					
		Milestone Number			Due Date		_					
		N/A			N/A							
		If yes or unknown, comment on characterization for treatment.										
		Waste will be characterized per the Tank Closure Documentation for each tank.										
	2.11.3	ls further characteriz	ation needed	about the wa	aste prior to ac	ceptan	ce for disposal?					
		☐ Yes	. 🗀	No		X	Unknown at this time					
					_							
		Milestone Number			Due Date N/A		¬ .					
		N/A										
		If yes or unknown, comment on characterization for disposal.										
		It is unknow if further and delisting petitions		vill be needed	d for disposal.	Awaitin	ng information such as, varianc					
2.12	Other l	key assumptions related	to storage, in	iventory, and	i generation inf	iormati	ion:					
		Waste will be sampled and characterized per applicable Data Quality Objectives, and/or the Regulatory Data Quality Objectives Supporting Tank Waste Remediation System Privatization Project, PNNL-12040 Rev 0,										
	Quality 12/199		ank Waste Re	emediation Sy	ystem Privatizat	ion Pro	oject, PNNL-12040 Rev U,					
			3.0	WASTE M	IINIMIZATIO	NC						
3.1	Has a v	waste minimization asse	ssment been o	completed for	r this stream?							
		Yes	⊠ No									
	If yes,	provide date assessment	conducted:		N/A							
	If yes,	s, provide document number or other identification:										
	N/A											

If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:

N/A

3.2 Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):

N/A

- 3.3 Waste minimization schedule
 - 3.3.1 Reduction achieved during calendar year 2002 (volume or mass)

0.000 m3

3.3.2 Projected future waste volume reductions

_	Year	m ³	and/or	kg
	2003	0.000		
	2004	0.000		
	2005	0.000		
	2006	0.000		
	2007	0.000	L	
ſ	Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

None.

1.0 WASTE STREAM IDENTIFICATION

1.1	Treatability	Group	Name:
-----	--------------	-------	-------

TRUM - CH

1.2 Description of waste (list WSRd numbers for this waste stream, as applicable)

The waste came from various facilities on and off the Hanford Site. The waste contains plastic/polyurethane, rubber, iron-based metal, soil, paper, cardboard, lead, rags, cement, stainless steel, wood, styrofoam, glass, absorbent/kitty litter, filters, lead shielding, carbon steel, fiberglass, brick/firebrick, plastic liner, shielding, concrete, animal waste, paints, ceramics, sludges, asbestos, aluminum, diatomaceous earth, resins, copper metal, lead, water, floor sweepings, batteries, leather, liquid, teflon, cork, cotton, light bulbs, urethane and wax.

2.0 WASTE INVENTORY AND GENERATION

2.1 Current total inventory for this waste stream (stored waste only, not accumulation areas). [Equals sum of location-specific data sheets for this treatability group.]

and/or

Total volume (cubic meters):

731.895

2.2 Estimated generation projection by calendar year: [equals annual sums of location-specific data sheets for this treatability group].

Year	m³
2003	461.191
2004	224.518
2005	242.232
2006	143.390
2007	114,700
Total	1,186.031

kg
0.000
0.000
0.000
0.000
0.000
0.000

3.0 WASTE STREAM CHARACTERIZATION

3.1	Radiol	Radiological Characteristics										
	3.1.1	Mixed waste type:		High-level	\boxtimes	Transuranic		Low-level				
	3.1.2	Handling (as package contents would need to be handled during treatment):										
		Contact-handled		Remote-handled								
	3.1.3	Comments on radiological characteristics (e.g., more specific information on content, treatment concerns caused by radiation, confidence level):										
		Each container of waste has more than 100 nCi/g of transuranic radionuclide activity.										

3.2	rnysical Form										
	3.2.1	Physical form of the waste:									
		⊠ Solid	☐ Liquid	Semi-solid	□ Debris						
		Other (Describe in comments.)									
	3.2.2										
		drums typically co drums has a higher	ntains organic debris or het	n vary substantially, TRUM wa erogeneous debris. TRUM wa waste than TRUM waste in bo ntain lead-lined gloves.	ste in						
3.3	Regulated constituents and wastewater/non-wastewater category										
	3.3.1	Wastewater/non-wastewater under RCRA									
		Wastewater	Non-was	tewater Unknow	v n						
	3.3.2	Regulated constituents table including treatment requirements and UHCs, if applicable.									

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable Charac.	N/A	***	***	Remove characteristic (1)
D002	Corrosive Charac.	N/A	***	***	Remove characteristic (1)
D004	Arsenic	N/A	***	***	Exempt (61 FR 60704)
D005	Barium	N/A	***	***	Exempt (61 FR 60704)
D006	Cadmium	N/A	***	***	Exempt (61 FR 60704)
D007	Chromium	N/A	***	***	Exempt (61 FR 60704)
D008	Lead	N/A	***	***	Exempt (61 FR 60704)
D009	Mercury	N/A	***	***	Exempt (61 FR 60704)
D010	Selenium	N/A	***	***	Exempt (61 FR 60704)
D011	Silver	N/A	***	***	Exempt (61 FR 60704)
D014	Methoxychlor	N/A	***	***	Remove characteristic (1)
D018	Benzene	N/A	***	***	Exempt (61 FR 60704)
D019	Carbon Tetrachloride	N/A	***	***	Exempt (61 FR 60704)
D027	1,4-Dichlorobenzene	N/A	***	***	Exempt (61 FR 60704)
D028	1,2-Dichloroethane	N/A	***	***	Exempt (61 FR 60704)
D029	1,1-Dichlorethylene	N/A	***	***	Exempt (61 FR 60704)
D030	2,4-Dinitrotoluene	N/A	***	***	Exempt (61 FR 60704)
D031	Heptachlor	N/A	***	***	Remove characteristic (1)
D033	Hexachlorobutadiene	N/A	***	***	Remove characteristic (1)
D034	Hexachloroethane	N/A	***	***	Exempt (61 FR 60704)
D035	Methyl Ethyl Ketone	N/A	***	***	Exempt (61 FR 60704)
D036	Nitrobenzene	N/A	中华和	***	Exempt (61 FR 60704)
D040	Trichloroethylene	N/A	***	***	Exempt (61 FR 60704)

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D043	Vinyl chloride	N/A	***	***	Exempt (61 FR 60704)
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	Exempt (61 FR 60704)
F001	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F002	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)
F003	Acetone	Spent Solvent	***	***	Exempt (61 FR 60704)
F003	Xylene	Spent Solvent	444	***	Exempt (61 FR 60704)
F004	Cresol	Spent Solvent	***	***	Exempt (61 FR 60704)
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Exempt (61 FR 60704)
WP01	Persistent, EHW	N/A	***	***	N/A
WP02	Persistent, DW	N/A	***	***	N/A
WSC2	Solid Corrosive	N/A	***	***	N/A
WT01	Toxic, EHW	N/A	***	***	N/A
WT02	Toxic, DW	N/A	***	***	N/A

[•] LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

(1) Characteristic waste codes not currently acceptable at WIPP.

3.3.3	List any waste numbers from Section 3.3.2 for which the waste stream already meets established LDR treatment standards.							
		List:						
	X	No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)						
		None (i.e. all constituents/waste numbers of this waste stream still require treatment).						

^{**} If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

^{***} The concentration varies and is based on process knowledge and/or analytical data.

	3.3.4	Does this wa	ste strea	m contain PC	Bs?					
		☐ Yes		×	No			Unknown		
		If no or unkn	own, ski	p to Section 3	.3.5.					
		3.3.4.1	Is was	te stream sub	ject to TSC	A regul	ations for	PCBs?		
				Yes			No		Unk	nown
		3.3.4.2	Indica	te the PCB co	oncentratio	n range.				
				< 50 ppm			≥ 50 ppn	n	Unk	nown
	3.3.5	What is the	confiden	ce level for th	e regulated	i constit	uents?			
		Low		X	Medium] High		
	3.3.6	Comments of	n regula	ted constitue	nts and was	stewater	/non-wast	ewater categoi	ry:	
		Over all drur	ns, the pr lead, silv	redominant co ver chloride, c	ntaminants,	, listed in	ı descendir	varies substanti ng order of wei admium, and		
				4.0 W	ASTE STE	REAM T	TREATM	IENT		
.1	Is this waste stream currently being treated?									
	X Ye	es			No					
	If yes, p	orovide details:		include so	lidification	. The un	it operatio	e unit operation ns are performe P waste accept	ed as	
.2		d treatment: (applicable re						for treating thi	is waste stre	am
	□ No	treatment requ	ui red (ski	p to Section 5	5.0)					
	Treating or plan to treat on site									
	☐ Tr	eating or plan t	o treat of	T site						
	☐ Tr	eatment option	s still bei	ng assessed						
.3	Planne	d treatment m	ethod, fa	cility, extent	of treatmer	nt capaci	ity availab	le:		
		ste will continu (983 cu m) per ;	_		RAP, as de	scribed i	n Sec 4.1	WRAP has a c	lesign capac	ity of 4,725
.4	Treatn	ent schedule i	nformati	ion:						
	Treatm	ent is anticipate	ed to be p	erformed as 1	necessary to	support	the results	of the M-091	TPA dispute	resolution.
.5	Applic	able Tri-Party	Agreem	ent treatmen	t milestone	number	s (includir	g permitting):	:	

	Milestone Number		Due Date		
	M-091-01				
4.6	Proposed new Tri-l	Party Agreement treatment	milestones:		
	See Section 4.4.				
4.7		ing to treat on site, was or w treatment method?	ill waste minimiz	ation be addressed in develo	ping
	⊠ Yes)	Unknown	
	If yes, describe:	Best management practic	ces.		
4.8		atability equivalency petition nt or already in place.	ns, rulemaking pe	titions, and case-by-case exe	mptions
	TRUM disposed of a	at WIPP is exempt from the L	DR treatment star	dards.	
4.9	Key Assumptions:				
	None.				
		5.0 WAS	TE STREAM I	DISPOSAL	
	After treatment, ho required, etc. as app	w will the waste stream be d plicable):	isposed of (includ	e locations, milestone numb	ers, variances
	TRUM is disposed o	f at WIPP.			

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pi	Unit/Plant name:		vestigation	Waste Stream:	200 Area Investigation								
	Treata	bilitiy Group Name	e:	TRUM - CH										
1.2	Applie	able profile numbe	r(s) for this v	vaste stream:										
	N/A. V	Vaste has not been g	generated.											
1.3	Waste	Waste stream source information												
	1.3.1	General descript maintenance wa		aste (e.g., spill clean-up	waste, discarded lab	materials,								
		Soil and miscellaneous solid waste generated during planned site investigations in the 200 Area of the Hanford Site.												
	1.3.2	•												
		Waste will be generated in the 200 East and West Areas of the Hanford Site during remedial investigation activities.												
	1.3.3 Source of the regulated constituents:													
		Hazardous constituents were discharged to the soil via ponds, ditches, cribs, and trenches during past Hanford operations.												
	1.3.4	Source of the int	formation (e.	g., analytical data, proc	ess knowledge, docu	ment number, etc.)								
		Analytical data a	nd process ki	nowledge.										
	1.3.5	Additional notes	::											
		None,												
	2	2.0 WASTE STRI	EAM STO	RAGE, INVENTORY	, AND GENERAT	ION INFORMATION								
	(NOTE	: For waste in sate	llite accumul	ation areas and 90-day a	ccumulation areas, ski	ip to Section 2.6.)								
2.1	Current storage method													
		Container (pad)		Container (covered)	☐ Con	tainer (retrievably buried)								
		Tank		DST	☐ SST	•								
		Other (explain):												
	2.1.1	How was the wa	ste managed	prior to storage?										
	N/A													
	2.1.2	Timeframe when	n waste was _l	placed to storage?										
	N/A													

Curr Otal	lding/Roon				Number of	Containers	/Tanks		
Total Date			<u>.</u>						
Total Date		a ta							
Date	l volume (i inventory for t	his strea	m.					
		cubic meters):			0.000				
Com	of invento	ory values:							
	ments on v	waste inventory:							
No w	vaste has b	een generated to	date.						
Is sto	rage cap	icity at this loca	tion pote	ntially a	n issue for	this wast	e stream?		
	Yes		X	No					
If yes	s, what is t	the total estimate	d storage	capacity	/?		N/A		
Wher	n is this ca	pacity expected	to be read	hed?			N/A		
Bases	s and assu	mptions used:							
N/A									
Plant	ned storas	ge areas for this	waste:						
	Current !	Location	×	cwc				DST	
		Location rea(s) (list):	X	cwc				DST	
			X	cwc				DST	
☐☐☐☐☐Estim	Other Ai	rea(s) (list): eration projection areas):	_		ear (include	es waste i			у
Estim	Other An None nated gen mulation of	rea(s) (list): eration projection areas): m³	_			es waste i			у
Estim	Other Ai None nated gene mulation a Year	rea(s) (list): eration projection areas): m ³ 0.000	on by cal	endar ye		es waste i			у
Estim accur	Other Ai None nated gen- mulation a Year 2003	rea(s) (list): eration projection areas): m³ 0.000 0.416	on by cal	endar ye		es waste i			у
Estimaceur	Other Ai None nated gene mulation a Year	rea(s) (list): eration projection areas): m ³ 0.000	on by cal	endar ye		es waste i			y
Estim accur	Other Ai None nated general mulation : Year 2003 2004	rea(s) (list): eration projection areas): m ³ 0.000 0.416 0.000	on by cal	endar ye		es waste i			y

	ne Num	ber				Due I	Date		
N/A						N/A			
Has the				ermitte	d, unat	thorized	release of this wa	ste str	eam from this storage
□ Y	es			X	No				
If yes, so	ımmari	ze rele	ases and c	quantitie	s and p	rovide dat	te:		
N/A									
Are the	re any	p lans t	o submit	request	s for va	riances o	r other exemptio	ns rela	ted to storage?
□ Y	es			\boxtimes	No				
If yes, e	xplain:		N/A						
Charact	erizati	on							
2.11.1	Is fu	rther c	haracteri	zation n	eeded	about the	waste prior to a	ceptan	ice for storage?
	X	Yes				No			Unknown at this time
							n nu		
	Mile	estone N	Jumber				Line Line		
	Mik N/A	estone N	lumber				Due Date N/A		
	N/A						N/A		
	N/A	s or unl	(nown, co				N/A on for storage.		
	N/A If yes	s or unl	m will be	characte	erized a	s it is gene	N/A on for storage.		
2.11.2	N/A If yes	s or unle e stream	m will be	characte	erized a reeded	s it is gene	N/A on for storage.	ceptan	nce for treatment?
2.11.2	N/A If yes	s or unl	m will be	characte	erized a	s it is gene	N/A on for storage.	cceptan	nce for treatment? Unknown at this time
2.11.2	N/A If yes Wast Is fun	s or unle e stream	m will be	characte	erized a reeded	s it is gene	N/A on for storage.	cceptan	
2.11.2	N/A If yes Wast Is fun	s or unke streamenther c	m will be	characte	erized a reeded	s it is gene	N/A on for storage. erated. waste prior to a	cceptan	
2.11.2	N/A If yes Wast Is fun Mill N/A	s or unke stream	known, co m will be haracteri	characte	erized a	s it is gene about the No	N/A on for storage. erated. waste prior to ac Due Date N/A	cceptan	
2.11.2	N/A If yes Wast Is fut Mill N/A	s or unke stream	known, co m will be haracteri	characte	erized a	s it is gene about the No	N/A on for storage. erated. waste prior to a	cceptan	
	N/A If yes Wast Is full Mill N/A If yes N/A	s or unker stream Yes estone N	nown, com will be haracteri	characte zation u	erized a	s it is generated No	N/A on for storage. erated. waste prior to an Due Date N/A on for treatment.		Unknown at this time
2.11.2	N/A If yes Wast Is full Mill N/A If yes N/A	s or unke stream rther c Yes estone N	known, com will be haracteri	characte zation u	erized a	s it is generated No	N/A on for storage. erated. waste prior to ac Due Date N/A		Unknown at this time
	N/A If yes Wast Is full Mill N/A If yes N/A	s or unker stream Yes estone N	known, com will be haracteri	characte zation u	erized a	s it is generated No	N/A on for storage. erated. waste prior to an Due Date N/A on for treatment.		Unknown at this time
	N/A If yes Wast Is fun Mill N/A If yes N/A Is fun	s or unke stream rther c Yes estone N	known, co	characte zation u	erized a	s it is generated No	N/A on for storage. erated. waste prior to an Due Date N/A on for treatment.		Unknown at this time

2.12	Other key assum	ptions related to storage,	inventory, and	generation information:
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The forecast waste volumes are subject to change upon approval of the Operable Unit Work Plans. This waste stream only addresses the projected CH-TRUM,

3.0 WASTE MINIMIZATION

3.1	Has a v	waste minimizati	on assessment b	een comp	leted for this st	ream?			
		Yes	×	No					
	If yes, p	provide date asses	ssment conducted	d:		N/A			
	If yes, 1	provide document	t number or other	r identific	ation:				
	N/A								
If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N									
	Prior to	initiation of field	l work.						
3.2	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):								
	Waste s	segregation will b	e used to minimi	ze TRUM	contaminated	waste generated during investigation activities.			
3.3	Waste	minimization sch	edule						
	3.3.1	Reduction ach	ieved during ca	lendar ye	ar 2002 (volum	e or mass)			
		0.000	m3						
	3.3.2	Projected futu	re waste volum	e reductio	ns				
		Year	m³	and/or	kg				
		2003	0.000						
		2004	0.000						
		2005	0.000						
		2006	0.000						
		2007	0.000		l				

0.000

None.

Total

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/H	Plant name:	233-S		Waste Strea	m:	233-S CH					
	Treat	abilitiy Group Nam	e:	TRUM - CH								
1.2	Appli	cable profile numbe	er(s) for this w	aste stream:								
	To be	developed.										
1.3	Waste	Waste stream source information										
	1.3.1	General descrip		ste (e.g., spill clean-up v	waste, discarde	d lab materi	als,					
		Decontamination	n and decomm	issioning (D&D) waste.								
	1.3.2 History of how and where the waste was/is generated:											
	Waste generated as a result of facility D&D.											
	1.3.3 Source of the regulated constituents:											
		Hazardous cons	tituents were is	ntroduced as part of plant	t operations.							
	1.3.4	Source of the in	formation (e.	g., analytical data, proce	ess knowledge,	document n	umber, etc.)					
		Process knowled	dge and analyt	ical data.								
	1.3.5	Additional note	es:									
		This waste strea	m only accour	its for the TRUM waste t	hat will be shipp	ped to CWC	for storage.					
		2.0 WASTE STR	REAM STOR	AGE, INVENTORY,	, AND GENE	RATION I	NFORMATION					
	(NOT	E: For waste in sate	ellite accumula	ation areas and 90-day ac	cumulation area	ıs, skip to Se	ection 2.6.)					
2.1	Curre	ent storage method										
		Container (pad)	X	Container (covered)		Container ((retrievably buried)					
		Tank		DST		SST						
		Other (explain):										
	2.1.1	How was the wa	aste managed	prior to storage?								
	Waste	was generated and j	placed into ten	porary storage at this loo	cation.							
	2.1.2	Timeframe who	en waste was j	placed to storage?								
	Calendar Years 2000-2002.											

.2	Storage invent	Storage inventory locations:								
	Building/Roon	Number			Numbe	r of Contain	ners/Tanks			
	Waste tents				10 drui	ns				
	Waste tents				2 stand	ard waste b	oxes			
.3	Current stored	l inventory for t	his stres	ım.				<u></u>		
	Total volume (cubic meters):			6.680)				
	Date of invento	ory values:		12/31/	2002					
	Comments on waste inventory:									
		vith heavy metals	3							
.4		city at this locat		entially :	an issue	for this w	aste stream?			
	☐ Yes		X	No						
	If yes, what is t	the total estimate	e capacit	y?		N/A				
	When is this ca	pacity expected	to be rea	ched?			N/A			
	Bases and assumptions used:									
	N/A									
.5	Planned storag	ge areas for this	waste:							
	Current	Location	X	CWC				DST		
	Other A	rea(s) (list):								
.6	Estimated general	eration projection areas):	on by ca	lendar y	ear (inc	ludes was	te in satellite	and 90-day	y	
	Year	m³	and/or	1	kg	_				
	2003	22.560								
	2004	0.000								
	2005	0.000								
	2006	0.000								
	2007	0.000								
	Total	22.560								
.7	•	Compliance Asso		informa	tion:					
	Document Number						Date			
				····]	

□ A	ssessment has been s	cheduled.	Sched	uled date:			
X 0	ther. Explain:	Not schedu	led at t	his time.			
Applica	ble Tri-Party Agree	ment miles	itones	related to st	orage at this	location:	
Milesto	ne Number			Due Da	te	1	
N/A				N/A			
	re ever been any nor he environment?	ı-permitte	d, una	uthorized re	elease of this	waste stres	ım from this storage
□ Y	es	\boxtimes	No				
If yes, sı	ımmarize releases an	d quantitie	s and p	rovide date:	;		
N/A							
Are the	re any plans to subm	it request	for v	riances or	other exempt	tions relate	d to storage?
□ Y	es	X	No				
If yes, e	xplain: N/A						
Charact	erization		,				
2.11.1	Is further characte	erization n	eeded	about the w	aste prior to	acceptanc	e for storage?
	⊠ Yes			No			Unknown at this time
	Milestone Number				Due Date		
	N/A				N/A	· 	1
	TC 1				<u> </u>		Ţ
	If yes or unknown,				_		
	Action Memoradur		id Will	be complete	ed to transfer	the IRUM	to CWC. Performed under a
2.11.2	Is further characte	erization n	eeded	about the w	aste prior to	acceptanc	e for treatment?
	☐ Yes		\boxtimes	No	•	-	Jnknown at this time
	_		_			_	
	Milestone Number				Due Date		7
	N/A			·	N/A		
	If yes or unknown,	comment o	on char	acterization	for treatment	·.	
	N/A						
2.11.3	Is further characte	erization n	eeded	about the w	aste prior to	acceptanc	e for disposal?
	☐ Yes		X	No	-		Jnknown at this time
	-		_			_	
	Milestone Number				Due Date	ı	7
	N/A				N/A		

2.12	Other key assumptions related to storage, inventory, and generation information:							
	This phase of the D&D project is scheduled to be completed by June 2003.	DOE is completing D&D of this						
	facility under an Action Memorandum from EPA.							

If yes or unknown, comment on characterization for disposal.

				3.0 WA	STE MINIMIZATION	
3.1	Has a v	vaste minimizati	on assessment b	een comp	oleted for this stream?	
		Yes	X	No		
	If yes,	provide date asses	ssment conducted	i:	N/A	
	If yes,	provide document	number or other	r identifica	ation:	
	N/A					
	If no, p	rovide date assess	sment will be con	npleted, o	or if waste stream is no longer generated, then indicate N	I/A:
	Ongoin	ıg.				
3.2	stream volume materi	(e.g., process cha through segregs als):	anges to reduce ation and avoids	or elimina nce of co	s for minimizing the generation of this ate LDR waste, methods to reduce mmingling, substitution of less-toxic .UM waste generated.	
3.3	Waste	minimization sch	edule			
	3.3.1	Reduction ach	ieved during ca	lendar ye	ear 2002 (volume or mass)	
		0.000	m3			
	3.3.2	Projected futu	ire waste volum	e reductio	ons	
		Year	m³	and/or	kg	
		2003	0.000]		
		2004	0.000]		
		2005	0.000]		
		2006	0.000			
		2007	0.000			

3.3.3 Bases and assumptions used in above estimates:

0.000

None.

Total

N/A

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/F	lant name:	325 HWTU		Waste Stream	m: TRUM-CH						
	Treats	bilitiy Group Nam	e:	TRUM - CH								
1.2	Applie	able profile numbe	er(s) for this w	aste stream:								
	PNNL	-220-0001-00, PNN	L-230-0001-0	o, PNNL-240-0001-00,	PNNL-250-0001-	-00						
1.3	Waste	stream source info	rmation									
	1.3.1	General descrip		ste (e.g., spiil clean-up	waste, discarded	lab materials,						
		Subject waste w	as generated fi	om PNNL laboratory o	perations.							
	1.3.2	•										
		Waste is continually generated from routine laboratory operations at PNNL.										
	1.3.3	1.3.3 Source of the regulated constituents:										
		Waste stream m inorganic and or includes hazarde	rganic regulate	ifferent inorganic and o d dangerous waste cons	rganic solids and tituents, including	liquids that are contaminated with g PCBs. This waste stream also						
	1.3.4	Source of the in	ıformation (e.	g., analytical data, proc	cess knowledge, d	locument number, etc.)						
		Wastes are char	acterized as sp	ecified in PNNL Waste	Stream Profiles.							
	1.3.5	Additional note	es:									
		N/A										
		2.0 WASTE STR	REAM STOR	AGE, INVENTORY	Y, AND GENEI	RATION INFORMATION						
	(NOT	E: For waste in sat	ellite accumula	ation areas and 90-day a	ccumulation area	s, skip to Section 2.6.)						
2.1	Curr	ent storage method										
		Container (pad)	X	Container (covered)		Container (retrievably buried)						
		Tank		DST		SST						
		Other (explain):										
	2.1.1	How was the w	aste managed	prior to storage?								
	The w	aste was managed i	n 90 day or SA	A prior to being transfe	erred to storage.							
	2.1.2	Timeframe wh	en waste was j	placed to storage?								
	The v		elow and curre	ntly stored at 325 HWT	U were placed in	storage between 4/29/97 and						

Building/Room	Number		N	umber of	f Containe	rs/Tanks		
325/520			4		· · · · · · · · · · · · · · · · · · ·			***
325/528				15	·····	· · · · · · · · · · · · · · · · · · ·		
Current stored	inventory for t	his stres						
Total volume (c	ubic meters):		(0.489				
Date of invento	ry values:		01/10/200	3				
Comments on w	vaste inventory:							
profile may be s prepared for shi	stored in these lo pment.	cations	in the future	. Their	profiles w	vill need to	astes that fit under a be written at the tin	•
Is storage capa	city at this locat	ion pote	entially an i	ssue for	this was	te stream'	?	
Yes		\boxtimes	No					
If yes, what is th	ne total estimated	d storage	capacity?			N/A		
When is this cap	pacity expected t	o be rea	ched?			N/A		
Bases and assur	nptions used:							
N/A								
Planned storag	e areas for this	waste:						
Current I	ocation	X	CWC			Г	DST	
	ea(s) (list):	_						
□ None	,,,,,							
— Estimated gene	ration projectio	n by cal	iendar year	(includ	es waste	in satellite	and 90-day	
accumulation a		-	•				•	
Year	m³	and/or	kg					
	0.624							
2003								
2003 2004	1,700			- 1				
	1,700							
2004								
2004 2005	1.700							

Docum	ent Number			Date	
A&E-I	OWR-02-004			05/31/200	2
	ssessment has been sche	duled. Schedule	ed date:		
	Other, Explain:				
Applica	ble Tri-Party Agreeme	nt milestones re	ated to storag	e at this location	:
	one Number		Due Date		
M-020	-20		06/30/1992		
	re ever been any non-po the environment?	ermitted, unaut	norized release	of this waste str	eam from this storage
Y	'es	No			
If yes, s	ummarize releases and q	uantities and pro	vide date:		
Ň/A					
Are the	re any plans to submit i	equests for var	ances or other	exemptions rela	ted to storage?
□ Y	'es	No No			
If yes, e	xplain: N/A				
Charac	terization				
2.11.1	Is further characteriz	ation needed ab	out the waste	prior to acceptar	nce for storage?
	Yes	X	No		Unknown at this time
	Milestone Number			Due Date	
	N/A			N/A	
	If yes or unknown, con	nment on charac	terization for s	torage.	
	N/A			_	
2.11.2	Is further characteriz	ation needed ab	out the waste	prior to acceptai	ace for treatment?
	☐ Yes		No		Unknown at this time
	Milestone Number			Due Date	
	N/A			N/A	
	If yes or unknown, cor	nment on charac	terization for t	reatment.	
	N/A				
2.11.3	Is further characteriz	ation needed ab	out the waste	prior to acceptar	nce for disposal?
	☐ Yes	X	No		Unknown at this time

Due Date

Milestone Number

		N/A			N/A		
		If yes or unkno	wn, comment or	n character	rization for disp	osal.	•
		N/A					
2.12	Other l	key assumptions :	related to stora;	çe, invente	ory, and genera	tion informatio	n;
	prior to TRUM storage	receiving the was packages that are	ste into the 325 I consolidated at 25 HWTU locati	HWTU. H the 325 H ion(s). Thi et include	lowever, further WTU. The inve is includes currect generation	confirmatory N. ntory informatio ent generation ar on and M-091 vo	from the laboratory generators DA may be performed on n is for what is currently in ad/or M-091 wastes. The olumes.
				3.0 WA	STE MINIMI	ZATION	
3.1	Has a v	vaste minimizatio	n assessment be	en compl	leted for this st	ream?	•
	□ '	Yes	\boxtimes	No			
	If yes, p	provide date asses	sment conducted	l:		N/A	
	If yes, 1	provide document	number or other	identifica	ition:		•
	N/A						
	If no, p	rovide date assess	ment will be cor	npleted, o	r if waste strean	n is no longer ge	nerated, then indicate N/A:
	Assessi	nent date to be de	termined.				
3.2	stream	e details of currer (e.g., process cha through segrega als):	inges to reduce	or elimins	te LDR waste,	methods to red	исе
	used in	•	Radioactive Was	te Operati	ions Group rout	inely assesses the	ess hazardous reagents can be e possibility of bulking and
3.3	Waste	minimization sch	edule				
	3.3.1	Reduction ach	ieved during ca	lendar ye:	ar 2002 (volum	e or mass)	
		0.800	m3				
	3.3.2	Projected futu	re waste volum	e reductio	ns		
		Year	m³	and/or	kg		
		2003	0.000				
		2004	0.000				•
		2005	0.000	-			
		2006	0.000	-			
		2007	0.000	1			

3.3.3 Bases and assumptions used in above estimates:

Any reductions indicated reflect only those achieved prior to shipment to CWC, not minimization efforts done in the laboratory prior to packaging. Thus the reduction is in shipping volume, not generation. The reductions projected are based upon historical reductions achieved through unit operations.

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325 HWTU/

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	CWC		Waste Stream:	CH TRUM
	Treata	bilitiy Group N	ame:	TRUM - CH		
1.2	Applic	able profile nun	nber(s) for this	waste stream:		
	N/A					
1.3	Waste	stream source i	nformation			
	1.3.1	General desc maintenance		vaste (e.g., spill clean-u	p waste, discarded lab m	aterials,
		waste, remed material such glass, ceramic	iation D&D was as plastic, rubles, asbestos, and	ste, and analytical labor ber, metal, paper, cardbo l batteries. Other comp	peration and maintenance valory waste. The waste monard, rags, cement, stainle onents of the waste includitemaceous earth, resins, ar	atrix is primarily debris ss steel, wood, Styrofoam e: soil, absorbent/kitty
	1.3.2	History of ho	w and where t	he waste was/is generat	ted:	
		Laboratory, K facility, Radio	Cerr-McGee, the	Chemical Engineering ding, the Semi-works D	nt, Critical Mass Laborator Building, Post-Irradiation &D, Radiological Calibra	Test Facility, REDOX
	1.3.3	Source of the	regulated cons	stituents:		
		Hazardous co	nstituents used	during onsite and offsite	e radiochemical operations	and D&D.
	1.3.4	Source of the	information (e	e.g., analytical data, pro	ocess knowledge, docume	nt number, etc.)
		Analytical dat	ta and process k	mowledge.		
	1.3.5	Additional n	otes:			
		None.				
	2	2.0 WASTE ST	REAM STO	RAGE, INVENTOR	Y, AND GENERATIO	N INFORMATION
	(NOTE	: For waste in s	atellite accumu	lation areas and 90-day	accumulation areas, skip t	o Section 2.6.)
2.1	Curren	t storage metho	d			
		Container (pad)	X	Container (covered)	Contain	ner (retrievably buried)
	П П	ank		DST	☐ SST	
		Other (explain):				
	2.1.1	How was the	waste managed	l prior to storage?		
	Accumu	lated and packa	ged by waste ge	nerators prior to storage	.	

itorage invento	ry locations:			
Building/Room	Number		Number o	f Containers/Tanks
cwc			1,849	
Current stored	inventory for th	is strea	m,	
Total volume (c	ubic meters):		392.000	
Date of inventor	y values:		01/06/2003	
Comments on w	aste inventory:			
nventory based	on data for conta	ainers re	esiding at the CWC	as reported in the SWITS.
s storage capa	city at this locati	on pote	entially an issue fo	r this waste stream?
Yes		X	No	
f yes, what is th	ne total estimated	storage	capacity?	N/A
When is this cap	acity expected to	be rea	ched?	N/A
ases and assur	nptions used:			
	·	ed on 2	0 year waste gener	ation forecast.
	e areas for this v			
Current I		×	CWC	☐ DST
_	ea(s) (list):			_
None	,,,,,			
— Estimated gene	ration projectio	n bv ca	lendar vear (inclu	des waste in satellite and 90-day
accumulation a		•	• •	·
Year	m³	and/or	kg	
2003	2.000			
2004	0.000			
2005	0.000			
I	0.000			
2006	0.000			
2006 2007				
	2.000			
2007 Total	2.000	.eem ont	Information:	
2007 Total DOE Storage (2.000 Compliance Asse			
2007 Total DOE Storage (2.000			
2007 Total DOE Storage (2.000 Compliance Asse ent has been com			Date

			Scilen	uled date:			
ц,	Other. Explain:						
Applica	ble Tri-Party Agreeme	ent miles	tones	related to sto	rage at this lo	cation:	
Milesto	one Number			Due Date			
M-020	-12			10/31/19	91		
	re ever been any non-p the environment?	ermitte	d, una	uthorized rel	ease of this wa	iste stre	am from this storage
Y	es	\boxtimes	No				
f yes, s	ummarize releases and	quantitie	s and p	provide date:			
N/A							
Are the	re any plans to submit	requests	for v	ariances or ot	ther exemption	ns relat	ed to storage?
Y	'es	X	No				
f yes, e	xplain: N/A						
Charac	terization						
2.11.1	Is further characteri	zation n	eeded	about the wa	ste prior to ac	ceptan	ce for storage?
	Yes Yes		X	No			Unknown at this time
	Milestone Number				Due Date		
	N/A				N/A		7
				· · · · · · · · · · · · · · · · · · ·			<u>-</u>
	If ves or unknown, co	mment o	n char	acterization f	or storage.		
	If yes or unknown, co	mment o	n chai	acterization f	or storage.		
2.11.2	N/A				_	centan:	ce for treatment?
2.11.2	•				_	•	ce for treatment? Unknown at this time
2.11.2	N/A Is further characteri		eeded	about the wa	_	•	
2.11.2	N/A Is further characteri Yes		eeded	about the wa	ste prior to ac	•	
2.11.2	N/A Is further characteric Yes Milestone Number N/A	zation n	eeded	about the wa	Due Date	•	
2.11.2	N/A Is further characteric Yes Milestone Number N/A If yes or unknown, co	zation n	eeded	about the wa	Due Date	•	
	N/A Is further characteric Yes Milestone Number N/A If yes or unknown, co	zation n	eeded	about the wa	Due Date N/A or treatment.		Unknown at this time
	N/A Is further characteric Yes Milestone Number N/A If yes or unknown, co	zation n	eeded	about the wa	Due Date N/A or treatment.	cceptan	Unknown at this time
2.11.2 2.11.3	N/A Is further characteric Yes Milestone Number N/A If yes or unknown, co N/A Is further characteric	zation n	eeded	about the wa No racterization for	Due Date N/A or treatment.	cceptan	Unknown at this time

		If yes or unkno	wn, comment of	n characte	rization for disp	osal.
		N/A				
2.12	Other	key assumptions	related to stora;	ge, invent	ory, and genera	tion information:
	None.					
				3.0 WA	STE MINIMI	ZATION
3.1	Has a	waste minimizatje	on assessment b	een comp	leted for this st	ream?
		Yes	\boxtimes	No .		
	If yes,	provide date asses	sment conducted	i :		N/A
	If yes,	provide document	number or other	r identifica	ation:	
	N/A	-				
	If no, p	provide date assess	ment will be cor	npleted, o	r if waste stream	n is no longer generated, then indicate N/A:
	-	olanned - waste no		•		
3.2	stream	ı (e.g., process cha e through segrega	inges to reduce	or elimina	ate LDR waste,	g the generation of this methods to reduce stitution of less-toxic
		activities occur be volumes placed in		re transfe	rred/shipped to	CWC. There are few opportunities to reduce
3.3	Waste	minimization sch	edule			
	3.3.1	Reduction ach	ieved during ca	lendar ye	ar 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	re waste volume	e reductio	ns	
		Year	m³	and/or	kg	
		2003	0.000			
		2004	0.000			
		2005	0.000]		
		2006	0.000			
		2007	0.000]		
		Total	0.000			
	3.3.3	Bases and assu	imptions used in	n above es	stimates:	

None.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	LLBG		Waste Stream:	TRUM Retrieval
	Treata	bilitiy Group N	ame:	TRUM - CH		
1.2	Applic	able profile nun	nber(s) for this	waste stream:		
	N/A					
1.3	Waste	stream source is	nformation			
	1.3.1	General desc maintenance	-	vaste (e.g., spill clean-up	o waste, discarded lab n	aterials,
		be similar to waste, R&D liprimarily deb wood, Styrofe	waste already in aboratory waste ris material suc parn, glass, cera	n inventory in the CWC, e, remediation D&D was h as plastic, rubber, met	i.e., facility or equipmen te, analytical laboratory al, paper, cardboard, rag ries. Other components	nds. Waste is expected to t operation and maintenance waste. The waste matrix is s, cement, stainless steel, of the waste include: soil, s earth, resins, floor
	1.3.2	History of ho	w and where t	he waste was/is generate	ed:	
	i de la companya de	Laboratory, K facility, Radio	Cerr-McGee, the ochemistry Buil and the Fuels D	Chemical Engineering l	Building, Post-Irradiation &D, Radiological Calibra	ntions Laboratory, research
	1.3.3	Source of the	regulated con	stituents:		
		Hazardous co	nstituents used	during onsite and offsite	radiochemical operation	s and D&D.
	1.3.4	Source of the	information (e.g., analytical data, pro	cess knowledge, docum	ent number, etc.)
		Analytical da	ta and process k	mowledge.		
	1.3.5	Additional ne	otes:			
		None.				
	2	2.0 WASTE ST	TREAM STO	RAGE, INVENTORY	Y, AND GENERATIO	ON INFORMATION
	(NOTE	E: For waste in s	atellite accumu	lation areas and 90-day a	accumulation areas, skip	to Section 2.6.)
2.1	Curren	nt storage metho	d			
		Container (pad)		Container (covered)		iner (retrievably buried)
		Tank		DST	☐ SST	
		Other (explain):				

2.1.1	How	was the waste n	nanaged	prior to	storage	: ?				
N/A			-	-						
2.1.2	Time	eframe when wa	ste was r	olaced to	storag	e?				
N/A										
Storage	invení	ory locations:								
_		Number			Numbe	r of Co	ntainers/7	Tanke		
N/A	B 10001			r	N/A			unas .		
urroni	tetore	i inventory for t	his stree							
		cubic meters):	iiis sii ca	111.	0.000					
	-	•			0.000	,				
		ory values:								
		waste inventory:								
regardin	g the fi									7 and assumptions on 2006 numbers du
ls stora;	ge capa	icity at this local	tion pote	ntially ar	n issue	for thi	is waste :	stream?		
Y	es			No						
if yes, w	hat is t	the total estimate	d storage	capacity	?					
		pacity expected	_							
		mptions used:								
N/A										
	l etaua	ge areas for this								
	•	Location		CWC				_	DST	
			X	CWC				Ш	ופט	
_	uner Ai Ione	rea(s) (list):								
Estimat accumu		eration projectio areas):	on by cal	lendar ye.	ar (inc	ludes v	waste in	satellite	and 90-day	1
Ye	ar	m ³	and/or	kį	Z					
200)3	0.000				[
200	4	150.000								
200	15	195.000								
200	16	105.000		ļ						
200	7	105.000		<u></u>						
Tot	al	555.000		1						

Docume		ent has been co	ompleted.						
Docume	nt Num								
		iber					Date		1
A	sessme	ent has been so	heduled.	Schedu	iled date:	.! _			1
_ 文 0	her. Ex	oplain: N	/ A						
Applical	ole Tri-	-Party Agreen	nent miles	tones i	elated to stors	ige at this	location:		
N/A			·		N/A				
		•	-permitte	d, unau	thorized relea	ise of this	waste strei	ım from	this storage
□ Y	es		X	No					
If yes, su	mmari	ze releases and	l quantitie	s and p	rovide date:				
N/A									
Are then	e any p	plans to submi	it requests	for va	riances or oth	er exempt	ions relate	d to stor	age?
Y	es		X	No					
If yes, e	plain:	N/A							
Charact	erizatio	on							
2.11.1	Is fur	ther characte	rization n	eeded :	about the wast	e prior to	acceptanc	e for stor	rage?
	X	Yes			No			Unknow	n at this time
	Mile	stone Number				Due Date	; 	7	
	M-0	91-07				09/30/200	04		
	If yes	or unknown,	comment o	on char	acterization for	r storage.			
	Waste Accep	e that is sent to ptance Criteria	WIPP wi . No com	ll need mitmer	to be character it is necessary	rized to en	sure that it	meets the	WIPP Waste
2.11.2	is fur	ther characte	rization n	eeded :	about the wast	te prior to	acceptanc	e for trea	atment?
		Yes		X	No			Unknown	at this time
	Mile	estone Number				Due Date	;		
	N/A					N/A		7	
	Mileston N/A Has ther unit to the Year If yes, su N/A Are ther Year Characte 2.11.1	Milestone Num N/A Has there ever unit to the envi Yes If yes, summari N/A Are there any part of the envi Yes If yes, explain: Characterization And If yes Waste Waste Acce it will 2.11.2 Is fun Mile Mile	Milestone Number N/A Has there ever been any non- unit to the environment? Yes If yes, summarize releases and N/A Are there any plans to submit Yes If yes, explain: N/A Characterization 2.11.1 Is further characte Yes Milestone Number M-091-07 If yes or unknown, of Waste will be assay Waste that is sent to Acceptance Criteria it will occur as part 2.11.2 Is further characte	Milestone Number N/A Has there ever been any non-permitter unit to the environment? Yes If yes, summarize releases and quantitie N/A Are there any plans to submit requests Yes If yes, explain: N/A Characterization 2.11.1 Is further characterization in Yes Milestone Number M-091-07 If yes or unknown, comment of Waste will be assayed as it is Waste that is sent to WIPP with Acceptance Criteria. No comit will occur as part of ongoing 2.11.2 Is further characterization in Yes Milestone Number	Milestone Number N/A Has there ever been any non-permitted, unautant to the environment? Yes No If yes, summarize releases and quantities and pone of yes, summarize releases and quantities and pone of yes, explain: Yes No If yes, explain: N/A Characterization 2.11.1 Is further characterization needed and yes Milestone Number M-091-07 If yes or unknown, comment on characterization was that is sent to WIPP will need Acceptance Criteria. No commitment it will occur as part of ongoing operation yes Milestone Number Yes Milestone Number	Milestone Number Due Date	Milestone Number N/A N/A	Has there ever been any non-permitted, unauthorized release of this waste streaming to the environment? Yes No If yes, summarize releases and quantities and provide date: N/A Are there any plans to submit requests for variances or other exemptions related Yes No If yes, explain: N/A Characterization 2.11.1 Is further characterization needed about the waste prior to acceptance Yes No Milestone Number Due Date M-091-07 09/30/2004 If yes or unknown, comment on characterization for storage. Waste will be assayed as it is retrieved to verify that it is TRU and will s Waste that is sent to WIPP will need to be characterized to ensure that it Acceptance Criteria. No commitment is necessary for the characterization it will occur as part of ongoing operations. 2.11.2 Is further characterization needed about the waste prior to acceptance Yes No Due Date	Milestone Number Due Date

		If yes	or unknowi	n, comment	on chara	acterizatio	n for treatment.		
		N/A							
	2.11.3	ls fur	her charac	terization n	eeded a	bout the	waste prior to a	cceptan	ce for disposal?
			Yes		X	No			Unknown at this time
		Miles	stone Numbe	г			Due Date		_
		N/A					N/A		
		If yes	or unknown	, comment	on chara	cterizatio	n for disposal.		
		N/A							
2.12	Other l	key assur	nptions rela	ated to stor	age, inv	entory, ar	nd generation in	formati	ion:
				s are based te as TRUM		nt baselin	e retrieval rates	and assu	amptions of what percentage of
					3.0 V	VASTE I	MINIMIZATI	ON	
3.1	Has a v	vaste min	imization :	essessment l	been coi	mpleted f	or this stream?		
	□ '	res .		X	No				
	If yes, p	rovide d	ate assessm	ent conducte	ed:		N/A		
	If yes, p	rovide d	ocument nu	mber or oth	er identi	fication:			
	N/A								
	If no, p	rovide da	te assessme	nt will be co	mpletec	i, or if wa	ste stream is no	longer g	enerated, then indicate N/A:
	None pl	anned.							
3.2	Provide	details (of current a	nd propose	d metho	ods for mi	inimizing the ge	neratio	n of this
	stream volume	(e.g., pro through	cess change segregation	es to reduce s and avoid	or elim	inate LD	R waste, metho ling, substitutio	ds to rec	duce S-toxic
	materia							on or ica	-toat
	retrievir trench. LLBG.	ng waste the Those the A small:	that already at are low-le fraction of v	exists. TRI evel and wer waste dispos	JM was re dispos ed after	te will be sed on or i August 1	minimized by as before August 1	ssaying 1 7, 1987 not TRU	g and packaging new waste, it is the suspect-TRU drums in the will remain disposed of in the J may need to be moved to the
3.3	Waste r	ninimiza	tion schedu	le					
	3.3.1	Reduct	tion achieve	ed during ca	llendar	year 2002	(volume or ma	185)	
		(0.000	m3				•	

3.3.2 Projected future waste volume reductions

Year	m³	and/or	kg
2003	0.000		
2004	0.000		
2005	0.000		
2006	0.000		
2007	0.000		
Total	0.000] [

3.3.3 Bases and assumptions used in above estimates:

None.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	PFP	•	Waste Stream:	Hanford Ash Residues					
	Treata	bilitiy Group Nam	e:	TRUM - CH							
1.2	Applicable profile number(s) for this waste stream:										
	PFPX-20L-0002-02.										
1.3	Waste stream source information										
	1.3.1	1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):									
	1.3.2 History of how and where the waste was/is generated:										
	Ash residue from PFP's incinerator, operated from 1961 to 1972. The incineration of contaminat combustible scrap material produced an ash residue that was retained for recovery of plutonium be then later declared waste. See section 2.1.2.										
	1.3.3 Source of the regulated constituents: Feed stock contained hazardous constituents.										
	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)										
	Analytical data, process knowledge.										
	1.3.5	1.3.5 Additional notes:									
	None.										
	2	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION									
	(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)										
2.1	Current storage method										
		Container (pad)	×	Container (covered)	Contain	ner (retrievably buried)					
	1	Fank		DST	☐ SST						
	Other (explain):										
	2.1.1 How was the waste managed prior to storage?										
	Material in vaults or vault-like rooms.										
	2.1.2 Timeframe when waste was placed to storage?										
	October 28, 1999 (per correspondence 00-OSS-273, dated April 3, 2000, S. H. Wisness, DOE to M. A. Wilson, Washington Department of Ecology).										

2.2	Storage inventory locations:										
	Building/Room	Number		Number o	Number of Containers/Tanks						
	2736-Z			10							
2.3	Current stored	Current stored inventory for this stream.									
	Total volume (c	cubic meters):		0.010							
	Date of invento	ry values:		12/31/2002							
	Comments on v	vaste inventory:									
	10 containers re	main in 2736-Z	for conf	irmatory sampling	,						
2.4	Is storage capacity at this location potentially an issue for this waste stream?										
	☐ Yes		X	No							
	If yes, what is t	he total estimate	d storage	capacity?	N/A						
	When is this ca	pacity expected	to be rea	ched?	N/A						
	Bases and assur	Bases and assumptions used:									
	N/A	N/A									
2.5	Planned storag	e areas for this	waste:								
	Current l	Location	X	CWC	☐ DST						
	Other A	rea(s) (list):	To b	e sent to CWC.							
	☐ None										
2.6	Estimated gen	Estimated generation projection by calendar year (includes waste in satellite and 90-day									
	accumulation areas):										
	Year	m³	and/or	kg							
	2003	0.000	1								
	2004	0.000									
	2005	0.000	┨	<u> </u>							
	2006	0.000	-								
	2007	0.000	1								
	Total	0.000]								
2.7	DOE Storage	DOE Storage Compliance Assessment information:									
	Assessment has been completed.										
	Document Nur	nber			Date						
		pliance Assess.;			09/13/2001						
	Ltr. #01-A&E-										

	☐ As	sessment has been sched	luled.	Schedu	led date:			
	Ot	her. Explain:						
2.8	Applicab	le Tri-Party Agreement	miles	tones r	elated to stora	ge at this lo	cation:	
	Mileston	e Number			Due Date			
	M-083-1	3			04/30/2004			
2.9		e ever been any non-per le environment?	rmitted	i, unau	thorized relea	se of this wa	ste strea	m from this storage
	☐ Ye	es	\boxtimes	No				
	If yes, su	mmarize releases and qu	antitie	s and pi	rovide date:			
	N/A							
2.10	Are ther	e any plans to submit re	quests	for va	riances or oth	er exemptio	ns relate	d to storage?
	□ Ye	es	X	No				
	If yes, ex	plain: N/A						
2.11	Characte	erization						
	2.11.1	Is further characterize	ıtlon n	eeded s	bout the wast	e prior to ac	ceptance	e for storage?
		☐ Yes		×	No			Unknown at this time
		Milestone Number				Due Date		
		N/A				N/A	1]
		If yes or unknown, com	ment (on char	acterization for	r storage		ı
		N/A	2410111	on Char		. 5.0.1.050		
	2.11.2	Is further characteriza	ation n	habaa.	hant the was	te prier te e	rcentanc	for treatment?
	2.11.2	Yes	TITO3K 10	区	No	ic prior to at		Jnknown at this time
					110		Ц,	
		Milestone Number				Due Date		_
		N/A				N/A		
		If yes or unknown, con	ament (on char	acterization fo	r treatment.		
		N/A						
	2.11.3	Is further characterize	ation n	eeded :	about the was	te prior to a	cceptanc	e for disposal?
		☐ Yes		X	No		ī	Jnknown at this time
		Milestone Number				Due Date		_
		M-083-13				04/30/2004]

		If yes or unkno	wn, comment or	n characte	rization for disp	osal.	
		N/A					
2.12	2.12 Other key assumptions related to storage, inventory, and generation information;						
	None.			-			
				3.0 WA	STE MINIMI	ZATION	
3.1 Has a waste minimization assessment been com					leted for this st	ream?	
	X	Yes		No			
	If yes,	provide date assess	sment conducted	d:		CY 2001	
	If yes,	provide document	number or other	r identifica	ition:		
	PFP 20	001 Waste Minimiz	zation Evaluation	n for LDR	Report Waste	Streams, Letter # M2100-02-016	
	If no. r	orovide date assess	ment will be cor	npleted, o	r if waste stream	n is no longer generated, then indicate N/A:	
		•		•		g., g.,,,	
3.2	stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):						
		no longer generation	•	cam.			
3.3		minimization sch					
	3.3.1	Reduction achi	leved during cal	lendar ye:	ar 2002 (volum	e or mass)	
		0.000	m3				
	3.3.2	Projected futur	re w as te volume	reductio	ns		
		Year	m ³	and/or	kg		
		2003	0.000				
		2004	0.000				
		2005	0.000				
		2006	0.000				
		2007	0.000				

3.3.3 Bases and assumptions used in above estimates:

0.000

N/A

Total

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Plant name:	PFP	Waste Stream	: Lead Lined Containers						
	Treatabilitiy Group Name:	TRUM - CH								
1.2	Applicable profile number(s) for this waste stream:									
	WSRd 230-00. Profile not yet developed.									
1.3	Waste stream source information									
	1.3.1 General description of the waste (e.g., spill clean-up waste, discarded lab materials, maintenance waste):									
	Unusable Product I	Unusable Product Receiver (PR) containers.								
	1.3.2 History of how and where the waste was/is generated:									
	lead-lined PR conta solutions from the c	PFP has approximately 90 lead-lined PR containers that held plutonium-bearing solutions. The emptied lead-lined PR containers will be retained for reuse during the facility's D&D activities to collect flush solutions from the cleanout of pipes and tanks, as necessary, for further processing or solidification. At such time as the PR containers are no longer required for use during cleanout activities, they will be declared TRUM.								
	1.3.3 Source of the regulated constituents:									
	Lead in the contain	er liners.								
	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)									
٠	Analytical data, pro	Analytical data, process knowledge.								
	1.3.5 Additional notes:	5 Additional notes:								
	None.									
	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION									
	(NOTE: For waste in satellite accumulation areas and 90-day accumulation areas, skip to Section 2.6.)									
2.1	Current storage method									
	Container (pad)	Container (cove	red) 🔲 C	ontainer (retrievably buried)						
	Tank	DST DST	□ s:	ST						
	Other (explain):									
	2.1.1 How was the waste managed prior to storage?									
	N/A									
	2.1.2 Timeframe when w	2.1.2 Timeframe when waste was placed to storage?								
	N/A									

2.2	Storage inventory locations:											
	Building/Room	n Number			Number of Co	ontainers/1	anks					
	PFP				0							
2.3	Current stored	l inventory for thi	s stres	ım.								
	Total volume (cubic meters):			0.000							
	Date of invento	ory values:		12/31/	2002							
	Comments on v	waste inventory:										
		The waste is not yet generated and, therefore, is not in storage. The containers are being retained for reuse, as necessary, during cleanout activities to hold flush solutions.										
2.4	Is storage caps	acity at this location	n pet	entially:	an issue for th	nis waste	stream?					
	☐ Yes		X	No								
	If yes, what is t	the total estimated	storag	e capaci	ty?	N	ī/A					
	When is this ca	pacity expected to	be rea	ched?		N	I/A					
	Bases and assumptions used:											
	None.	None.										
2.5	Planned storage areas for this waste:											
	Current	Location	CWC				DST					
	Other A	rea(s) (list):										
	☐ None											
2.6	Estimated gen	eration projection	by ca	lendar y	year (includes	waste in	satellite	and 90-day				
	Year	m ³	and/or		kg							
	2003	0.000										
	2004	0.000										
	2005	18.700										
	2006	0.000										
	2007	0.000										
	Total	18.700										
2.7	DOE Storage	Compliance Asses	sment	inform	ation:							
	Assessn	nent has been comp	oleted.									
	Document Nur	mber					Date					
	PFP Env. Com Ltr. #01-A&E	pliance Assess.;					09/13/20	01				

		Assessment has been sche	duled. Schedule	ed date:							
		Other. Explain:									
2.8	Applics	ble Tri-Party Agreeme	nt milestones re	lated to stor	age at this location:						
		one Number		Due Date							
	N/A			N/A							
2.9		re ever been any non-pe the environment?	ermitted, unaut	norized rele	ase of this waste stre	am from this storage					
	□ Y	es	⊠ No								
	If yes, s	ummarize releases and q	uantities and pro	vide date:							
	N/A										
2.10	Are the	re any plans to submit r	equests for vari	ances or oth	er exemptions relate	ed to storage?					
		'es	No		-	ŭ					
	If yes, e	xplain: N/A	_								
2.11	Charac	terization									
	2.11.1	Is further characteriz	ation needed ab	out the was	te prior to acceptanc	e for storage?					
		⊠ Yes		No	[7]	Unknown at this time					
			_								
		Milestone Number			Due Date	٦					
		<u></u>	<u> </u>	 -		J					
	If yes or unknown, comment on characterization for storage.										
		NDA will be required to characterization needs		iological con	tent. No commitmen	it is necessary for the					
	2.11.2	Is further characteriz	ation needed ab	out the wast	e prior to acceptanc	e for treatment?					
		☐ Yes		No	_ T	Unknown at this time					
		N									
		Milestone Number	 		Due Date N/A	Т					
		L				1					
		If yes or unknown, con	nment on charac	terization for	treatment.						
		N/A									
	2.11.3	Is further characterize	tion needed ab	out the wast	e prior to acceptance	e for disposal?					
		☐ Yes	\boxtimes	No		Jnknown at this time					
		Milestone Number			Due Date						
		N/A			N/A]					
						4					

		If yes or unkno	wn, comment on	character	zation for disposal.						
		N/A									
2.12	Other I	key assumptions	related to storag	e, invento	y, and generation information:						
	Waste i	s not yet generate	d, therefore it is	not in stor	ge.						
				3.0 WA	TE MINIMIZATION						
3.1	Has a v	vaste minimizatio	on assessment be	en compl	ted for this stream?						
	X	Yes		No							
If yes, provide date assessment conducted: CY 2001											
	If yes, provide document number or other identification:										
	PFP 2001 Waste Minimization Evaluation for LDR Report Waste Streams, Letter # M2100-02-016										
	If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:										
3.2	stream volume materi	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials): PFP will attempt to reuse these containers and will dispose of them only when no longer usable.									
3.3											
	Waste	-		and will	ispose of them only when no longe	r usable.					
	Waste 1	minimization sch	edule		ispose of them only when no longer - 2002 (volume or mass)	r usable.					
		minimization sch	edule			r usable.					
		minimization sch Reduction ach 0.000	edule sieved during cal	iendar ye:	· 2002 (volume or mass)	r usable.					
	3.3.1	minimization sch Reduction ach 0.000	edule nieved during cal m3	iendar ye:	· 2002 (volume or mass)	r usable.					
	3.3.1	minimization sch Reduction ach 0.000 Projected futu	nedule nieved during cal m3 are waste volume	iendar ye: : reductio	r 2002 (volume or mass) s	r usable.					
	3.3.1	minimization sch Reduction ach 0.000 Projected futu Year	nedule sieved during cal m3 sire waste volume m3	iendar ye: : reductio	r 2002 (volume or mass) s	er usable.					
	3.3.1	Reduction ach 0.000 Projected futu Year 2003	m3 re waste volume m³ 0.000	iendar ye: : reductio	r 2002 (volume or mass) s	r usable.					
	3.3.1	Reduction sch 0.000 Projected futu Year 2003 2004	m3 re waste volume m³ 0.000	iendar ye: : reductio	r 2002 (volume or mass) s	er usable.					

3.3.3 Bases and assumptions used in above estimates:

0.000

Total

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program which periodically identifies if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/P	lant name:	PFP		Waste Stre	am:	Legacy Holdup Was					
	Treats	abilitiy Group N	ame:	TRUM - CH								
1.2	Applic	able profile nun	nber(s) for this	vaste stream:								
	Not ye	t developed.										
1.3	Waste	stream source i	nformation									
	1.3.1	General desc maintenance	-	aste (e.g., spill clean-up	waste, discarde	d lab mater	ials,					
			earing holdup con d operational up	nsists of materials that ha	ave gradually acc	cumulated as	a result of facility					
	1.3.2	History of ho	ow and where th	e waste was/is generate	d:							
		Plutonium in ductwork, process vacuum system piping, gloveboxes/hoods, and on the PRF canyon floor that is readily removable will be removed and evaluated for retention or disposal as waste.										
	1.3.3	Source of the	e regulated cons	tituents:								
		Introduced during processing of material as part of process feed.										
	1.3.4	3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)										
		Analytical data, process knowledge.										
	1.3.5	Additional n	otes:									
		None.										
		2.0 WASTE S	FREAM STO	RAGE, INVENTORY	, AND GENE	RATION 1	NFORMATION					
	(NOTE	E: For waste in	satellite accumul	ation areas and 90-day a	ccumulation area	ıs, skip to Se	ection 2.6.)					
2.1	Curre	nt storage metho	od									
		Container (pad)		Container (covered)		Container	(retrievably buried)					
		Tank		DST		SST						
		Other (explain):										
	2.1.1	How was the	waste managed	prior to storage?								
	N/A											
	2.1.2	2.1.2 Timeframe when waste was placed to storage?										
	N/A											

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	Number		Number of Cont	ainers/Tanks	
Current stores	l inventory for	his stream.	<u> </u>		
Total volume (cubic meters):		0.000		
Date of invento	ory values:				
Comments on v	waste inventory:				
Vill be generat	ted when the leg	acy holdup wa	iste is removed.		
s storage caps	eity at this loca	tion potential	lly an issue for this	waste stream?	
Yes		No			
f yes, what is t	he total estimate	d storage capa	acity?		
Vhen is this ca	pacity expected	to be reached?	?		
Bases and assu	mptions used:				
None.					
lanned stora;	e areas for this	waste:			
Current 1	Location	⊠ cw	/C	П	DST
Other Ar	rea(s) (list):				
Estimated gene eccumulation a		on by calenda	ır year (includes wa	iste in satellite	and 90-day
Year	m³	and/or	kg		
2003	7.290		0.000		
	25.792		0.000		
2004	23.172	 			
2005	26.832		0.000		
2005 2006	26.832 5.190		0.000		
2005 2006 2007	26.832 5.190 0.000		0.000		
2005 2006 2007 Total	26.832 5.190 0.000 65.104		0.000 0.000 0.000		
2005 2006 2007 Total	26.832 5.190 0.000 65.104 Compliance Ass		0.000 0.000 0.000		
2005 2006 2007 Total	26.832 5.190 0.000 65.104		0.000 0.000 0.000		
2005 2006 2007 Total	26.832 5.190 0.000 65.104 Compliance Ass ent has been cor		0.000 0.000 0.000	Date	

2.8		ble Tri-Party Agreeme ne Number	tones r	elated to storage at this location: Due Date								
	N/A	ne Number			N/A							
	L					1						
2.9	Has there ever been any non-permitted, unauthorized release of this waste stream from this storage unit to the environment?											
	□ Y	es	X	No								
	If yes, s	ummarize releases and q	uantitie	s and pr	ovide date:							
	N/A											
2.10	Are there any plans to submit requests for variances or other exemptions related to storage?											
	□ Y	es	X	No								
	If yes, e	xplain: N/A										
2.11	Charact	terization										
	2.11.1	Is further characteriz	ation n	eeded s	bout the wa	ste prior to acc	eptance	e for storage?				
		Yes Yes			No	•		Unknown at this time				
		Milestone Number				Due Date						
		M-083-12-T01				12/31/2003						
		M-083-14				09/30/2006						
		If yes or unknown, comment on characterization for storage.										
		Characterization needs and schedule to be provided in the PFP Legacy Pu Holdup Removal Plan (MX-83-12-T01).										
	2.11.2	Is further characteriz	ation n	eeded s	bout the wa	ste prior to acc	eptanc	e for treatment?				
		Yes		X	No		_ r	Jnknown at this time				
		Milestone Number				Due Date		_				
		N/A				N/A						
		If yes or unknown, co	mment e	on chara	acterization f	or treatment.		_				
		N/A										
	2.11.3	Is further characteriz	tation n	eeded s	bout the wa	ste prior to acc	eptanc	e for disposal?				
		☐ Yes		X	No		☐ ^Ţ	Jnknown at this time				
		Milestone Number				Due Date						
		N/A	· · · · · · · · ·			N/A]				

		If yes or unkn	own, comment o	n characte	rization for disp	posal.			
		N/A							
2.12	Other	key assumptions	related to stora	ge, invent	ory, and gener	ation information:			
	None.								
				3.0 WA	STE MINIM	IZATION			
3.1	Has a	waste minimizati	on assessment b	een comp	leted for this st	ream?			
		Yes	X	No					
	If yes,	provide date asses	ssment conducte	d:		N/A			
If yes, provide document number or other identification:									
	N/A								
	If no. 1	provide date asses	sment will be con	mpieted, o	r if waste stream	m is no longer generated, then indicate N/A:			
		2 below.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		is no issign penetated, then materic 14/1.			
3.2	volum materi PFP ha types of reducti toxicity	e (e.g., process che through segregation): as a waste minimize f pollution and wa ion, is the preferre y, and/or mobility	anges to reduce ation and avoids cation program. A aste generating a d option, follows will be consider	or elimins unce of cor A heirarchi ctivities. P ed by envir	nte LDR waste, nmingling, sub ial approach to collution preven commentally saf- nen prevention	g the generation of this methods to reduce estitution of less-toxic environmental management is applied to all ation and waste minimization, through source de recycling. Treatment to reduce the quantity, or recycling is not possible or practical. edicable to all these activities.			
3.3	Waste	minimization sch	edule						
	3.3.1	Reduction ach	ieved during ca	lendar yes	ar 2002 (volum	e or mass)			
		0.000	m3						
	3.3.2	Projected futu	re waste volum	e reductio	ns				
		Year	m ³	and/or	kg				
		2003	0.000		0.000				
		2004	0.000]	0.000				
		2005	0.000		0.000				
		2006	0.000]	0.000				
		2007	0.000		0.000				

3.3.3 Bases and assumptions used in above estimates:

0.000

Total

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program which periodically identifies if there are further opportunities to reduce waste production or produce waste in a less hazardous form.

0.000

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pla	ant name:	PFP		Waste Stream:	Plutonium-Bearing Misc. Residues					
	Treatab	oilitiy Group Nam	ie:	TRUM - CH							
1.2	Applica	ble profile numb	er(s) for this w	vaste stream:							
	WSRd 2	20L-01. Profile no	t yet developed	i .							
1.3	Waste stream source information										
	1.3.1	General descrip		aste (e.g., spill clean-up	waste, discarded lat	o materials,					
				rom plutonium recovery edium, grinding wheels,		ems that include compounds foil.					
	1.3.2	History of how	and where th	e waste was/is generate	ed:						
Plutonium bearing materials from plutonium recovery processes at PFP. Material was original generated as product and then later declared waste by the DOE. See section 2.1.2.											
	1.3.3 Source of the regulated constituents:										
	Introduced during processing of material as part of process feed.										
	1.3.4	Source of the in	nformation (e.	g., analytical data, pro	cess knowledge, doc	ument number, etc.)					
	Analytical data, process knowledge.										
	1.3.5	Additional not	es:								
		None.									
	2	2.0 WASTE STI	REAM STO	RAGE, INVENTOR	Y, AND GENERA	TION INFORMATION					
	(NOTE	: For waste in sa	tellite accumul	ation areas and 90-day	accumulation areas, s	kip to Section 2.6.)					
2.1	Curren	it storage method									
		Container (pad)	×	Container (covered)	□ Cc	ontainer (retrievably buried)					
		Fank		DST	□ ss	ST .					
		Other (explain):									
	2.1.1	How was the w	vaste managed	prior to storage?							
	Product	t in vaults or vault	-like rooms as	material.							
	2.1.2 Timeframe when waste was placed to storage?										
		er 28, 1999 (per co		00-OSS-273, dated Apri	il 3, 2000, S. H. Wisn	ess, DOE to M. A. Wilson,					

	_	ntory locations:							
		m Number				ber of Contain	ners/Tanks		
27.	36-Z	 			25		***************************************		
Cur	rent store	ed inventory for	this strea	ım.					
Tota	ıl vol ume	(cubic meters):	,		5.20)5			
Date	of inven	tory values:		12/31/2	2002				
Com	ments on	waste inventory:	:						
Non	e.								
ls st	orage cap	acity at this loca	ition pote	entially a	n issu	e for this wa	iste stream?		
	Yes		X	No					
f ye	s, what is	the total estimate	ed storage	e capacity	y?		N/A		
Whe	n is this c	apacity expected	to be rea	ched?			N/A		
3ase	s and assi	umptions used:							
Vone	e.								
Planned storage areas for this waste:									
X	Current	Location	X	CWC			\Box	DST	
_ 	Other A	rea(s) (list):	_	Z (Stora	ge pur	suant to the	TPA).		
	None			,					
Stir	nated gen	eration projecti	on by cal	endar ve	ear (inc	cludes waste	e in satellite	and Q0des	v
	mulation				(> 0 - 2 2.,	•
	Year	m³	and/or	k	g	_			
	2003	5.205				1			
	2004	0.000				4			
	2005	0.000				_			
	2006 2007	0.000				_			
	Total	5.205				†			
	 .		l	L		1			
	_	Compliance Ass		nformat	ion:				
X]	Assessm	nent has been con	npleted.						
Doc	ument Nur	nher					Data		
		pliance Assess.;					Date 09/13/200	·····	
	#01-A&E	•					02/13/200	• •	

	Assessment has been scho	eduled. Schedul	ed date:		
	Other, Explain:				
Applica	able Tri-Party Agreeme	nt milestones re	lated to stora	age at this location:	
Milest	one Number		Due Date		
M-083	-13		04/30/2004	;	
	ere ever been any non-p the environment?	ermitted, unaut	horized relea	se of this waste strea	ım from this storage
_ `	Yes	⊠ No			
f yes, s	summarize releases and q	uantities and pro	vide date:		
N/A					
Are the	ere any plans to submit	requests for vari	ances or oth	er exemptions relate	d to storage?
<u> </u>	⁄es	⊠ No			
If yes, e	explain: N/A				
Charac	terization				
2.11.1	Is further characteriz	zation needed at	out the wast	e prior to acceptanc	e for storage?
	⊠ Yes		No		Unknown at this time
	Milestone Number			Due Date	
	M-083-13			04/30/2004]
	If yes or unknown, cor	mment on charac	terization for	storage	1
	Characterization to be			_	
2.11.2	Is further characteriz	_			e for treatment?
	Yes		No		Jnknown at this time
	Milestone Number			Due Date	_
	N/A			N/A	
	If yes or unknown, con	mment on charac	terization for	treatment.	-
	N/A				
2.11.3	Is further characteriz	ation needed ab	out the wast	e prior to acceptance	e for disposal?
	☐ Yes	X	No		Jnknown at this time
	Milestone Number			Due Date	7
	N/A			N/A	†

If yes or unknown, comment on characterization for disposal.

		N/A									
2.12	Other I	key assumptions	related to stora	ge, invent	ory, and genera	ation information:					
	None.										
				3.0 WA	STE MINIMI	ZATION					
3.1	Has a v	vaste minimizatio	on assessment b	een comp	leted for this st	ream?					
	X	Yes		No							
	If yes, p	provide date asses	sment conducted	d :		CY 2001					
	If yes, p	orovide document	number or other	r identifica	ition:						
PFP 2001 Waste Minimization Evaluation for LDR Report Waste Streams, Letter # M2100-02-016											
	If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:										
				•							
	volume materis PFP is :	through segrega als): no longer generati	tion and avoids	nce of con eam, only	nmingling, sub	methods to reduce stitution of less-toxic em into pipe overpack containers (POCs). The ste to be disposed.					
3.3	Waste 1	minimization sch	edule								
	3.3.1	Reduction ach	ieved during ca	lendar ye:	ar 2002 (volum	e or mass)					
		0.000	m3								
	3.3.2	Projected futu	re waste volum	e reductio	ns						
		Year	m³	and/or	kg						
		2003	0.000								
		2004	0.000								
		2005	0.000								
		2006	0.000	Ţ							
		2007	0.000	1							
		Total	0.000								
	111	Roses and age:	mntions used is	- n ebovo es	timater.	-					

N/A

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PFP/

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pi	ant name:	PFP		Waste Strea	m:	Pu Miscellaneous Residues, Combustibles					
	Treata	bilitiy Group Name	: :	TRUM - CH								
1.2	Applic	able profile numbe	r(s) for this w	aste stream:								
	WSRd	20L-01 (profile not	yet developed	l).								
1.3	Waste	Waste stream source information										
	1.3.1	General descrip		ste (e.g., spill clean-up	waste, discarded	l lab mater	ials,					
	Combustibles from plutonium processing at 234-5Z. Further characterization of these combustibles is needed.											
	1.3.2 History of how and where the waste was/is generated:											
	Combustibles from plutonium processing at 234-5Z. Material was originally generated as product and then later declared waste by the DOE. See section 2.1.2.											
	1.3.3 Source of the regulated constituents:											
		Items used in plu	itonium proce	ssing became hazardous	s by contaminatio	n during pr	ocessing.					
	1.3.4	Source of the in	formation (e.	g., analytical data, pro	cess knowledge, e	document 1	number, etc.)					
		Process knowled	lge.									
	1.3.5	Additional note	s:									
		None.										
		2.0 WASTE STR	EAM STOR	RAGE, INVENTORY	Y, AND GENE	RATION	INFORMATION					
	(NOTI	E: For waste in sate	ellite accumul	ation areas and 90-day a	occumulation area	ıs, skip to S	ection 2.6.)					
2.1	Curre	nt storage method										
		Container (pad)	X	Container (covered)		Container	(retrievably buried)					
		Tank		DST		SST						
		Other (explain):										
	2.1.1	How was the wa	iste managed	prior to storage?								
	Produc	t in vaults or vault-l	ike rooms as	material.								
	2.1.2											
		er 28, 1999 (per corr ngton Department o	-	0-OSS-273, dated Apri	1 3, 2000, S. H. W	isness, DC	E to M. A. Wilson,					

2101	rage inven	tory locations:								
Bu	ilding/Roor	n Number		Number of Con	tainers/Tanks					
27	36-ZB, 234	-5Z		12 containers	12 containers					
Сиг	rent store	d inventory for t	this stre	ım.						
Tota	ıl volume (cubic meters):		0.012						
Date	of invent	ory values:		12/31/2002						
Com	ments on	waste inventory:								
None	c.									
Is st	огаде сар:	acity at this loca	tion pote	entially an issue for this	waste stream?					
	Yes	•	\mathbf{X}	No						
If ye	s, what is	the total estimate	d storage	e capacity?	N/A					
Whe	n is this ca	pacity expected	to be rea	ched?	N/A					
Base	s and assu	mptions used:								
None	None.									
Plan	ned store	ge areas for this	waste:							
X				CWC	П	DST				
	Other A	rea(s) (list):			**************************************					
	None									
Estir	mated gen	eration projectio	on by cal	endar year (includes w	nste in satellite	and 90-day	,			
	mulation		·	· `		,				
	Year	m³	and/or	kg						
-	2003	2.500								
	2004	0.000								
	2005	0.000								
	2007	0.000								
=	Total	2.500								
L										
B	Storage (Compliance Asse		information:						
DOE	Assessm	ent has been com	.p.10104.							
×	Assessm				Date					

11 (Assessment has been scho Other. Explain:	Janica,	Julicu	uica uate.			
_	•						
	able Tri-Party Agreeme	nt miles	stones		age at this loc	ation:	
Milest M-083	tone Number			Due Date 04/30/200			
	<u> </u>	 		<u> </u>			
	ere ever been any non-pe the environment?	ermitte	d, una	uthorized rele	ase of this was	te stre	am from this storage
· ·	Yes	X	No				
If yes,	summarize releases and q	uantitie	s and p	provide date:			
N/A							
Are the	ere any plans to submit r	requests	s for v	ariances or otl	er exemption:	relat	ed to storage?
<u> </u>	Yes	X	No				
If yes, e	explain: N/A						
Charac	terization						
2.11.1	Is further characteriz	ation n	eeded	about the was	te prior to acc	eptano	e for storage?
	∑ Yes			No			Unknown at this tim
	Milestone Number				Due Date		
	M-083-13	_			04/30/2004		7
	If yes or unknown, cor	mment (n char	acterization fo	r etorogo		4
	Characterization to be				•	naoka	ain a
						-	-
2 11 2	le further characteriz						- f 4 4 40
2.11.2	Is further characteriz				te prior to acc		
2.11.2	Yes		×	No	te prior to acc		e for treatment? Unknown at this time
2.11.2					te prior to acco		
2.11.2	☐ Yes						
2.11.2	Yes Milestone Number N/A		X	No	Due Date N/A		
2.11.2	Yes Milestone Number		X	No	Due Date N/A		
	Milestone Number N/A If yes or unknown, con N/A	nment o	on char	No acterization for	Due Date N/A r treatment.		Unknown at this time
	Milestone Number N/A If yes or unknown, con	nment o	on char	No acterization for	Due Date N/A r treatment.	ptane	Unknown at this time
	Milestone Number N/A If yes or unknown, con N/A Is further characterization	nment o	on char	No acterization for	Due Date N/A r treatment.	ptane	Unknown at this time
2.11.2 2.11.3	Milestone Number N/A If yes or unknown, con N/A Is further characterization	nment o	on char	No acterization for	Due Date N/A r treatment.	ptane	Unknown at this time

		If yes or unkno	wn, comment or	characte	rization for disp	osal.
		N/A				
2.12	Other	key assumptions	related to storag	e, invent	ory, and genera	tion information:
	None.					
				3.0 WA	STE MINIMI	ZATION
3.1	Has a	waste minimizatio	on assessment be	en comp	leted for this st	ream?
	X	Yes		No		
	If yes,	, provide date asses	sment conducted	l:		CY 2001
	If yes	, provide document	number or other	identifica	ation:	
	PFP 2	001 Waste Minimi	zation Evaluation	n for LDR	Report Waste S	Streams, Letter # M-2100-02-016
	If no,	provide date assess	ment will be con	npleted, o	r if waste strean	n is no longer generated, then indicate N/A:
3.2	strear volum mater	n (e.g., process cha ne through segrega fals):	inges to reduce of tion and avoida	or elimina nce of co	ate LDR waste, mmingling, sub	the generation of this methods to reduce stitution of less-toxic
		s no longer generati will be loaded so a	_	_		em into pipe overpack containers (POCs). The te to be disposed.
3.3	Waste	e minimization sch	edule			
	3.3.1	Reduction ach	ieved during cal	lendar ye	ar 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	re waste volume	reductio	ns	
		Year	m³	and/or	kg	
		2003	0.000]		
		2004	0.000			
		2005	0.000			
		2006	0.000			
		2007	0.000			
		Total	0.000]		

Bases and assumptions used in above estimates:

3.3.3

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pl	ant name:	PFP		Waste Stre	am:	Pu Oxides/Mixed Oxides Residues					
	Treatal	bilitiy Group Na	me:	TRUM - CH								
1.2	Applica	ıble profile num	ber(s) for this	s waste stream:								
	PFPX-2	0L-0004										
1.3	Waste s	tream source information										
	1.3.1	General descr		waste (e.g., spill clean-	up waste, discarde	d lab mater	ials,					
		Plutonium-bearing oxide and mixed oxide material that has previously undergone thermal stabilization and contains very little moisture and no organics.										
	1.3.2	History of hov	History of how and where the waste was/is generated:									
		and contains von PFP generate PRF processes plutonium oxide thermally stabilalloys - scrap results.	Plutonium-bearing oxide and mixed oxide material that has previously undergone thermal stabilization and contains very little moisture and no organics. There are three sub-categories: 1. PFP generated oxide residues - a low-grade plutonium oxide material recovered from the RMC and PRF processes. All material was thermally stabilized prior to storage in the vaults. 2. Rocky Flats oxide - plutonium oxide residues recovered from various pyrochemical operations. Materials have been thermally stabilized to remove moisture and reactive or gas generating components. 3. Mixed oxide and alloys - scrap materials resulting from 300 Area fuel fabrication research. The material varies widely in composition. Material was originally generated as product and then later declared waste by the DOE.									
	1.3.3	Source of the	Source of the regulated constituents:									
		Feed stock contained hazardous constituents. See above.										
	1.3.4	Source of the information (e.g., analytical data, process knowledge, document number, etc.)										
		Process knowledge.										
	1.3.5	Additional notes:										
		None.										
	2	.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION										
	(NOTE:	For waste in sa	itellite accumu	ulation areas and 90-day	accumulation area	as, skip to Se	ection 2.6.)					
2.1	Current	t storage method	I									
		ontainer (pad)	X	Container (covered)		Container ((retrievably buried)					
	□ т	ank		DST		SST						
	o	ther (explain):										
	2.1.1	How was the waste managed prior to storage?										
	Product i	in vaults or vault	-like rooms as	material								

	2.1.2	Time	frame when was	te was j	placed to	storage	?					
	2000	-2002.										
2.2	Store	age invent	ory locations:									
	Bui	lding/Room	Number			Numbe	r of Co	ntainers/Tan	ks			
	273	6-Z				1417						
	234	-5Z				4						
2.3	Curr	ent stored	l inventory for th	nis stres	ım.							
	Total	volume (cubic meters):			295.015						
	Date	of invento	ry values:		12/31/2	2002						
	Com	ments on v	vaste inventory:									
	None).										
2.4	Is sto	rage capa	city at this locat	ion pot	entially s	n issue	for th	is waste str	eam?			
		Yes		X	No							
	If yes	s, what is t	he total estimated	l storag	e capacit	y?		N/A				
	When	n is this ca	pacity expected to	o be rea	ched?			N/A				
	Base	s and assu	mptions used:									
	N/A											
2.5	Plan	ned storag	e areas for this v	vaste:								
	X	Current 1	Location	\boxtimes	CWC					DST		
	×	Other A	rea(s) (list):	234-	5Z (Stora	ige pursi	uant to	the TPA).				
		.,		2736	-Z (Stora	age purs	uant to	the TPA).				
		None										
2.6		_	eration projectio	n by ca	lendar y	ear (inc	ludes	waste in sa	tellite	and 90	-day	
	исси	mulation : Year	m ³	and/or		l-a						
		2003	285.438	and or		kg)					
		2004	10.410									
		2005	0.000									
		2006	0.000									
		2007	0.000									
		Total	295.848									
2.7	DOE	Storage (Compliance Asse	ssment	informa	tion:						

Assessment has been completed.

Docut	nent Nur	nber				Date	<u> </u>	
i i	nv. Com 01-A&E	pliance Assess.; -129				09/1	3/2001	
	Assessm Other, E	nent has been so Explain:	heduled.	Schedul	ed date:			
Applic	able Tr	i-Party Agreen	ent miles	tones re	lated to stora	ge at this loc	ation:	
	one Nur				Due Date	_		
M-08	3-13				04/30/2004			
		r been any non- vironment?	permitte	d, unaut	horized relea	se of this was	ite stres	m from this storage
	Yes		X	No				
If yes,	summai	rize releases and	l quantitie	s and pro	ovide date:			
N/A								
Are th	ere any	plans to submi	t request:	s for var	iances or oth	er exemption	s relate	d to storage?
	Yes		\boxtimes	No				
If yes,	explain	: N/A						
Chara	cterizat	tion						
2.11.1	Is fu	rther characte	rization n	eeded a	bout the wast	e prior to acc	ceptanc	e for storage?
	X	Yes			No			Unknown at this time
	Mi	lestone Number				Due Date	···	7
	M-	083-13				04/30/2004		
	If ye	es or unknown,	comment -	on chara	cterization for	storage.		
	Cha	racterization is l	being com	pleted v	ia the DQO pi	rocess prior to	repack	aging.
2.11.2	Is fu	arther characte	rization n	eeded a	bout the wast	e prior to ac	ceptanc	e for treatment?
		Yes		X	No		_ '	Unknown at this time
	Mi	ilestone Number				Due Date		٦
	N/	A		w		N/A		
	If yo	es or unknown,	comment	on chara	cterization for	r treatment.		
	N/A	.						

	2.11.3	Is furt	ther charac	terization ne	eded ab	out the waste	prior to acceptance for disposal?	
			Yes		X	No	Unknown at this	time
		Miles	stone Numbe	ar			Due Date	
		N/A					N/A	
		If yes	or unknowi	n, comment o	n charact	erization for	disposal.	
		N/A						
2.12	Other k	ey assur	nptions rei	ated to stora	ge, inven	itory, and ge	neration information:	
	None.	•	-			• •		
					3.0 W	ASTE MIN	MIZATION	
3.1	Has a w	aste min	nimization :	assessment b	een com	pleted for th	s stream?	
		es			No			
	- -	rovide da	ate assessm	ent conducted	d:		CY 2001	
	If yes, p	rovide de	ocument nu	mber or other	r identific	cation:		
							ste Streams, Letter# M2100-02-016	.
						-	ream is no longer generated, then in	
	,				,		and the sought Benefitted, then he	Sibalo 1 Will.
3.2	stream ((e.g., pro through	cess chang	es to reduce	or elimir	iate LDR wa	zing the generation of this ste, methods to reduce substitution of less-toxic	
							g them into pipe overpack container waste to be disposed.	s (POCs). The
3.3	Waste n	oinimiz a	tion sched	ule				
	3.3.1	Reduc	tion achiev	ed during ca	lendar y	ear 2002 (vo	ume or mass)	
		(0.000	m3				
	3.3.2	Projec	ted future	waste volume	e reducti	ons		
		Y	ear	m³	and/or	kg		
		20	03	0.000				
		20	04	0.000				
		20	05	0.000				
		20	06	0.000				
		20	n7	0.000		ı	I	

Total

0.000

3.3.3 Bases and assumptions used in above estimates:

N/A

B-673 PFP/

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Plant name:	PFP		Waste Stream:	Rocky Flats Ash Residues								
	Treatabilitiy Group N	ame:	TRUM - CH										
1.2	Applicable profile nun	nber(s) for this	vaste stream:										
	PFPX-20L-0001												
1.3	Waste stream source is	nformation											
	1.3.1 General desc maintenance	-	aste (e.g., spill clean-up	waste, discarded lab m	aterials,								
	Ash residue f	rom Rocky Flats	incinerator.										
	1.3.2 History of he	1.3.2 History of how and where the waste was/is generated:											
		h from Rocky F e. See section 2.	ats was originally sent to	o Hanford for plutonium	recovery, but was later								
	1.3.3 Source of the	regulated cons	tituents:										
	Feed stock contained hazardous constituents.												
	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)												
	Analytical data, process knowledge.												
	1.3.5 Additional no	otes:											
	None.	None.											
	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION												
	(NOTE: For waste in s	atellite accumul	ation areas and 90-day a	ccumulation areas, skip t	o Section 2.6.)								
2.1	Current storage metho	d											
	Container (pad)	X	Container (covered)	Contai	ner (retrievably buried)								
	☐ Tank		DST	☐ SST									
	Other (explain):												
	2.1.1 How was the	waste managed	prior to storage?										
	Product in vaults or vau	Product in vaults or vault-like rooms.											
	2.1.2 Timeframe when waste was placed to storage?												
	October 28, 1999 (per c Washington Departmen	_	0-OSS-273, dated April	3, 2000, S. H. Wisness,	DOE to M. A. Wilson,								

2.2	Storage invent									
	Building/Room	Number			of Containers/Tanks	<u> </u>				
	2736-Z			10						
2.3	Current stored	inventory for t	his strea	m.						
	Total volume (cubic meters):		0.010						
	Date of invento	ry values:		12/31/2002						
	Comments on v	vaste inventory:								
	10 containers w	ill remain in 273	6-Z for	confirmatory san	npling.					
2.4	ls storage capa	city at this locat	tion pote	entially an issue	for this waste stream?	•				
	☐ Yes		\times	No						
	If yes, what is t	he total estimate	d storage	e capacity?	N/A					
	When is this ca	pacity expected	to be rea	ched?	N/A					
	Bases and assumptions used:									
	N/A									
2.5	Planned storag	ge areas for this	waste:							
	Current	Location	\boxtimes	CWC		DST				
	Other A	rea(s) (list):								
	☐ None									
2.6	Estimated gen	eration projecti	on by ca	lendar year (inc	ludes waste in satellit	e and 90-day				
	accumulation	= -								
	Year	m ³	and/or	kg	1					
	2003	0.000			_					
	2004	0.000								
	2005	0.000	1		_					
	2006	0.000								
	2007	0.000								
	Total	0.000]]					
2.7	DOE Storage	Compliance Ass	essment	information:						
	Assessn	nent has been cor	mpleted.							
	Document Nur				Date					
	PFP Env. Com	pliance Assess.; -129			09/13/2	.001				

	□ A	ssessm	ent has been sched	duled.	Sched	iuled	date:			
		ther. E	xplain:							
2.8	Applica	ble Tri	-Party Agreemen	t mile:	stones	relat	ed to stor	age at this lo	cation:	
		ne Nun					Due Date			
	M-083	-13		-		Т	04/30/2004	4		
2.9	Has the		. haan any							
4.7			ironment?	rmitte	u, una	HTHQ:	rizea reies	ase of this wa	ste stre	am from this storage
	□ Y	es		X	No					
	If yes, s	ummari	ize releases and qu	antitie	s and p	provi	de date:			
	N/A									
2.10	Are the	re any ¡	plans to submit re	quests	for v	arian	ces or oth	er exemption	ns relate	d to storage?
		es		X	No					_
	If yes, e	kplain:	N/A							
2.11	Charact	erizati	on .							
	2.11.1	Is fur	ther characteriza	tion n	eeded	abou	t the wast	e prior to ac	ceptanc	e for storage?
			Yes		X	No				Unknown at this time
		Mila	stone Number					Due Date		
		N/A						N/A		1
		16								1
			or unknown, com	meni o	n cnar	racter	ization foi	storage.		
		N/A								
	2.11.2	is fur	ther characteriza	tion ne				e prior to ac		
			Yes		\boxtimes	No			t	Jnknown at this time
		Mile	stone Number					Due Date		
		N/A						N/A]
		If ves	or unknown, com	ment o	n char	acter	ization for	trestment		1
		N/A	or anniown, com	iliciii o	11 01101	acici	ization içi	ucaunent.		
	2.11.3		ther characteriza	dan ne	adad .	abau	4 4ha	a - wlaw 4+ ++++		
	2.11.0		Yes	LIVII IIC			i tue wase	e biior to acc	-	Inknown at this time
			- 45		X	1			Ц,	MARIOWN AT UNS TITME
		Mile	stone Number					Due Date		
		N/A						N/A		

		If yes or unkn	own, comment o	n characte	rization for disp	posal.
		N/A				
2.12	Other	r key assumptions	related to stora	ge, Invent	ory, and genera	ation information:
	None				_	
				3.0 WA	STE MINIM	IZATION
3.1	Has a	waste minimizati	on assessment b	een comp	leted for this st	ream?
	×	Yes		No		
	If yes	, provide date asse	ssment conducted	i :		CY 2001
	If yes	, provide documen	t number or other	ridentifica	ation:	
	PFP 2	001 Waste Minim	ization Evaluatio	n for LDR	Report Waste	Streams, Letter# M-2100-02-016
	If no,	provide date asses.	sment will be con	npleted, o	r if waste strear	n is no longer generated, then indicate N/A:
		•		•		5 5 ,
3.2	strear volun mater	n (e.g., process ch ne through segreg: rials):	anges to reduce ation and avoida	or elimina nce of co	ate LDR waste,	g the generation of this methods to reduce estitution of less-toxic
	PFP is	no longer generat	ing this waste str	eam.		
3.3	Waste	minimization sch	iedule			
	3.3.1	Reduction act	ieved during ca	lendar ye	ar 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	ire waste volume	reductio	ns	
		Year	m³	and/or	kg	
		2003	0.000]		
		2004	0.000			
		2005	0.000			
		2006	0.000			
		2007	0.000			
		Total	0.000			

3.3.3 Bases and assumptions used in above estimates:

N/A

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pi	ant name:	PFP		Waste Strea	m:	Sand, Slag, and Crucible Residues					
	Treatab	ilitiy Group Name	:	TRUM - CH								
1.2	Applica	ble profile numbe	r(s) for this w	vaste stream:								
	PFPX-2	0L-0003										
1.3	Waste s	tream source info	rmation									
	1.3.1	General descrip		aste (e.g., spill clean-up	waste, discarded	l lab mater	ials,					
		unreacted pluton	ium fluoride.	C) is a process residue. Sand and crucible piece gnesium oxide sand, and	es are composed o	of the broke						
	1.3.2	History of how a	and where the	e waste was/is generated	d:							
		_	buttons. SS&	ginally generated in the r C was originally genera			- ·					
	1.3.3 Source of the regulated constituents:											
	Introduced during processing of material as part of process feed.											
	1.3.4	Source of the ini	ormation (e. _i	tion (e.g., analytical data, process knowledge, document number, etc.)								
		Analytical data, p	process know	ledge.								
	1.3.5	Additional notes	:									
		None.	•									
	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION											
٠	(NOTE:	For waste in sate	llite accumula	ation areas and 90-day ac	ccumulation area	s, skip to Se	ection 2.6.)					
2.1	Curren	t storage method										
		Container (pad)	\boxtimes	Container (covered)		Container (retrievably buried)					
	_ T	ank		DST		SST						
		other (explain):										
	2.1.1	How was the wa	ste managed	prior to storage?								
	Product	in vaults or vault-li	ke rooms as r	naterial.								
	2.1.2 Timeframe when waste was placed to storage?											
		28, 1999 (per correction Department of	•	0-OSS-273, dated April	3, 2000, S. H. W	isness, DOI	E to M. A. Wilson,					

PFP/

inis location potentially an issue for this waste stream? No estimated storage capacity? N/A expected to be reached? N/A used: CWC DST	Building/Room N	lumber		Number of	Containers/Tanks
ters): 1.874 s: 12/31/2002 rentory: his location potentially an issue for this waste stream? No estimated storage capacity? N/A expected to be reached? N/A used: for this waste: CWC DST	234-5Z			9	
interpretation potentially an issue for this waste stream? No estimated storage capacity? N/A expected to be reached? N/A used: CWC DST st):	Current stored i	nventory for tl	his strean	n.	
his location potentially an issue for this waste stream? No estimated storage capacity? N/A spected to be reached? N/A used: CWC DST st):	Total volume (cu	bic meters):		1.874	
his location potentially an issue for this waste stream? No estimated storage capacity? N/A spected to be reached? N/A used: CWC DST st):	Date of inventory	values:		12/31/2002	
No estimated storage capacity? Repected to be reached? N/A used: for this waste: CWC DST st):	Comments on wa	iste inventory:			
No estimated storage capacity? Repected to be reached? N/A used: for this waste: CWC DST st):	None.				
estimated storage capacity? Appected to be reached? N/A N/A used: for this waste: CWC DST st):	Is storage capac	ity at this locat	ion poter	ntially an issue for	this waste stream?
specied to be reached? N/A used: for this waste: CWC DST st):	Yes Yes		X	No	
used: for this waste: CWC DST st):	If yes, what is the	e total estimated	d storage	capacity?	N/A
for this waste: CWC DST st):	When is this capa	acity expected t	to be reac	hed?	N/A
st):	Bases and assum	ptions used:			
st):	None.				
st):	Planned storage	areas for this	waste:		
st):	Current L			CWC	□ DST
	_	a(s) (list):	_		_
projection by calendar year (includes waste in satellite and 90-day					
, , , , , , , , , , , , , , , , , , , ,	None None				
	LI	ation projection	on by cale	endar year (includ	es waste in satellite and 90-day
3 and/or kg	 Estimated gener		on by cale	endar year (includ	es waste in satellite and 90-day
1974	Estimated gener				es waste in satellite and 90-day
1,0/4	Estimated gener	reas):			es waste in satellite and 90-day
0.000	Estimated gener accumulation ar Year	m ³			es waste in satellite and 90-day
	Estimated gener accumulation ar Year 2003	m ³ 1.874 0.000			es waste in satellite and 90-day
0.000	Estimated generaccumulation ar Year 2003 2004	m ³ 1.874 0.000 0.000			es waste in satellite and 90-day
0.000	Estimated generaccumulation ar Year 2003 2004 2005	m ³ 1.874 0.000 0.000 0.000			es waste in satellite and 90-day
	Other Are		X	CWC	□ DST
	nated gener mulation ar Year	m ³			es waste in satellite and 90-day
0.000	stimated gener ccumulation ar Year 2003 2004	m ³ 1.874 0.000			es waste in satcilite and 90-day
0.000	stimated gener ecumulation ar Year 2003 2004 2005	m ³ 1.874 0.000 0.000			es waste in satellite and 90-day
0.000 0.000	Estimated generatecumulation are Year 2003 2004 2005 2006	m ³ 1.874 0.000 0.000 0.000			es waste in satellite and 90-day
0.000 0.000 0.000 0.000	stimated gener ecumulation ar Year 2003 2004 2005 2006 2007	m ³ 1.874 0.000 0.000 0.000 0.000			es waste in satellite and 90-day
0.000 0.000 0.000 0.000	Stimated gener Stimated gener Communication are Year 2003 2004 2005 2006 2007 Total	m ³ 1.874 0.000 0.000 0.000 0.000 1.874	and/or	kg	es waste in satellite and 90-day
0.000 0.000 0.000 0.000	Estimated gener recumulation ar Year 2003 2004 2005 2006 2007 Total	m ³ 1.874 0.000 0.000 0.000 0.000 1.874	and/or	kg	es waste in sateilite and 90-day
0.000 0.000 0.000 0.000	Estimated generaccumulation are Year 2003 2004 2005 2006 2007 Total	m ³ 1,874 0.000 0.000 0.000 0.000 1.874 ompliance Asse	and/or	kg	es waste in satellite and 90-day
0.000 0.000 0.000 0.000 1.874 nce Assessment information:	Estimated generaccumulation are Year 2003 2004 2005 2006 2007 Total DOE Storage Communication are security and security and security are security as a security	1,874 0,000 0,000 0,000 0,000 1,874 ompliance Assent has been con	and/or	kg	

Milest	one Number			Due l	Date		
M-083	-13			04/30	/2004		
	ere ever been any non-p the environment?	ermitte	d, una	uthorized	release of this w	aste stre	am from this storage
	?es	\boxtimes	No				
If yes, s	ummarize releases and	quantitic	s and p	provide dat	e:		
N/A							
Are the	re any plans to submit	request	s for v	ariances o	r other exemption	ons relat	ed to storage?
<u> </u>	?es	X	No				
If yes, e	xplain: N/A						
Charac	terization						
2.11.1	Is further characteri	zation n	eeded .	about the	waste prior to a	cceptano	e for storage?
	☐ Yes		X	No			Unknown at this time
	Milestone Number				Due Date		
	N/A				N/A	· · · · · · · · · · · · · · · · · · ·	٦
	If yes or unknown, co	mmant (an char	noteriantia	n for storage	· · · · · · · · · · · · · · · · · · ·	
	N/A	inite (JII CIIGI	aciciizano	n for storage.		
2.11.2	Is further characteri	zotion n	andod.	ahaut tha	wasta mulan ta a		
2.11.2	Yes	ZRUVII II		No No	waste ргіог tо ж	-	
			X	140		' ليا	Unknown at this time
	Milestone Number				Due Date		
	N/A				N/A		
	If yes or unknown, co	mment o	on char	acterizatio	n for treatment.		-
	N/A						
2.11.3	Is further characteris	zation n	eeded :	about the	waste prior to a	cceptanc	e for disposal?
	☐ Yes		X	No	•	-	Unknown at this time
	Milestone Number				Due Date		
	N/A	<u> </u>			N/A		٦
				<u> </u>			7
	If yes or unknown, co	mment c	n char	acterizatio	n for disposal.		
	N/A						

2.12	Other key assumptions related to storage, inventory, and generation information:											
	None.											
				3.0 WA	STE MINIMI	IZATION						
3.1	Has a	waste minimizati	on assessment b	een comp	leted for this st	ream?						
	X	Yes		No								
	If yes,	provide date asses	sment conducted	l :		CY 2001						
	If yes,	provide document	number or other	identifica	ation:							
	PFP 20	001 Waste Minimi	zation Evaluation	n for LDR	Report Waste	Streams, Letter # M-2100-02-016						
	If no, p	provide date assess	ment will be con	npleted, o	τ if waste stream	n is no longer generated, then indicate N/A:						
	volum materi PFP is	e through segregs ials):	ition and avoida	nce of cor	mmingling, sub	methods to reduce stitution of less-toxic em into pipe overpack containers (POCs). The ste to be disposed.						
3.3	Waste minimization schedule											
	3.3.1	0.000	ieved during cal m3	·	•	e or mass)						
	3.3.2	·	re waste volume									
		Year	m ³	and/or	kg							
		2003	0.000									
		2004	0.000		-							
		2006	0.000									
		2007	0.000									

3.3.3 Bases and assumptions used in above estimates:

Total

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

Unit/Pla	ant name:	PFP		W	aste Stream:	TRUM Debris
Treatabilitiy Group Na		ame:	TRUI	M - CH		
Applica	ible profile nun	nber(s) for th	is waste str	eam:		
PFPX-2	30-0004, PFPX	-230-0005, P	FPX-230-00	06, PFPX-230-0007,	PFPX-230-0008, I	FPX-230-0012
Waste s	tream source i	nformation				
1.3.1	General desc maintenance	-	e waste (e.g.	, spill clean-up waste	, discarded lab m	aterials,
	Primarily deb	oris materials	such as plast	ic, wood, rubber, met	tal, glass, concrete,	etc.
1.3.2	History of ho	ow and where	e the waste v	vas/is generated:		
	Debris is gen	erated from fa	acility or equ	ipment operations an	d maintenance was	ste and D&D activities.
1.3.3	Source of the	e regulated co	onstituents:			
	Materials/deb activities.	oris contamina	ated with haz	ardous constituents f	rom operations, co	nstruction, and D&D
1.3.4	Source of the	e information	e.g., analy	tical data, process ki	nowledge, docume	nt number, etc.)
	Analytical da	ita, process kr	nowledge			
1.3.5	Additional n	otes:		•		
	None					
2	2.0 WASTE S	TREAM ST	ORAGE, 1	NVENTORY, AN	D GENERATIO	N INFORMATION
(NOTE	: For waste in	satellite accur	mulation are	as and 90-day accum	ulation areas, skip	to Section 2.6.)
Curren	t storage meth	od				
	Container (pad)	ļ	Contair	ner (covered)	Contai	ner (retrievably buried)
□ ³	Γank	1	☐ DST		☐ SST	
	Other (explain):					
2.1.1	How was the	waste mana	ged prior to	storage?		
N/A						
2.1.2	Timeframe v	when waste w	vas placed to	storage?		
N/A			-			
Storage	e inventory loca	ations:				
	•					
Buildi	ng/Room Number	T		Number of Containers	/Tanks	

Cur	rent stored in	ventory for t	his strea	m.			
Tota	al volume (cub	ic meters):		0.000)		•
Date	e of inventory	values:					
Con	nments on was	te inventory:					
Who	en generated, t	he TRUM wi	ll be plac	ed into a SAA o	r 90-day accu	mulation a	rea.
Is st	torage capacit	y at this loca	tion pote	ntially an issue	for this wast	e stream?	
	Yes			No			
If y	es, what is the	total estimate	d storage	capacity?			
Who	en is this capac	city expected	to be read	ched?			
Bas	es and assump	tions used:					
Nor	ne.						
Pla	nned storage a	areas for this	waste:				
_	Current Loc		X	CWC			DST
	Carrent Do						
	Other Area	(s) (list):					
Esti	Other Area None imated genera umulation are	(s) (list): ution projecti		lendar year (inc	ludes waste i	n satellite	and 90-da
Esti	Other Area	(s) (list): ation projecti	on by cal	endar year (inc	ludes waste i	n satellite	and 90-da
Esti	Other Area None imated genera umulation are Year 2003	(s) (list): ation projections): m ³ 133.700			dudes waste i:	n satellite	and 90-da
Esti	Other Areas None imated genera umulation are Year 2003	(s) (list): ation projections: m ³ 133.700 36.200			ludes waste i	n satellite	and 90-da
Esti	Other Area None imated genera umulation are Year 2003 2004 2005	(s) (list): ation projections): m ³ 133.700 36.200 0.000			dudes waste i	n satellite	and 90-da
Esti	Other Area None imated genera umulation are Year 2003 2004 2005 2006	(s) (list): ation projections): m ³ 133.700 36.200 0.000 31.500			ludes waste i	n satellite	and 90-da
Esti	Other Areas None Imated general umulation are Year 2003 2004 2005 2006 2007	(s) (list): ation projections): m ³ 133.700 36.200 0.000 31.500 8.000			ludes waste i	n satellite	and 90-da
Esti	Other Areas None imated genera umulation are Year 2003 2004 2005 2006 2007 Total	(s) (list): ation projections): m ³ 133.700 36.200 0.000 31.500 8.000 209.400	and/or	kg	dudes waste i	n satellite	and 90-da
Esti	Other Area None Imated genera umulation are Year 2003 2004 2005 2006 2007 Total	(s) (list): ation projections): m ³ 133.700 36.200 0.000 31.500 8.000 209.400	and/or	kg	ludes waste i	n satellite	and 90-da
Esti acci	Other Area None Imated genera umulation are Year 2003 2004 2005 2006 2007 Total	(s) (list): ation projections): m³ 133.700 36.200 0.000 31.500 8.000 209.400 mpliance Ass t has been con	and/or	kg	ludes waste i	n satellite	and 90-da

2.8	Applicable Tri-Party Agreement milestones related to storage at this location: Milestone Number Due Date								
	N/A	one Number				Due Date N/A			
	L								
2.9		ere ever been any non-p the environment?	ermitte	d, una	uthor	ized reles	ise of this wa	ste stre	eam from this storage
		?es	\boxtimes	No					
	If yes, s	nummarize releases and c	_l uantitie	s and p	provid	le date:			
	N/A							-	
.10	Are the	re any plans to submit	request	s for v	arian	ces or oth	er exemption	ıs relat	ed to storage?
	_ ·	?es	\boxtimes	No					
	If yes, e	explain: N/A							
2.11	Charac	terization							
	2.11.1	Is further characteriz	ation n	eeded	abou	t the wast	e prior to ac	ceptan	ce for storage?
					No				Unknown at this time
		Milestone Number					Due Date		
		N/A					N/A		
		If yes or unknown, cor						· · · · · · · · · · · · · · · · · · ·	l
							_		A CITYO N
		necessary for the chara						ntainer	to CWC. No commitment
	2.11.2	Is further characteriz	ation n	eeded	abou	t the wast	e prior to ac	eptane	ce for treatment?
		☐ Yes		X	No		-	-	Unknown at this time
		Milestone Number					Due Date		_
		N/A					N/A		
		If yes or unknown, con	nment o	on chai	racter	ization for	treatment.		_
		N/A						•	
	2.11.3	Is further characteriz	ation n	eeded	abou	the wast	e prior to acc	eptan	ce for disposal?
		☐ Yes		X	N	o			Unknown at this time
		Milestone Number					Due Date		
		N/A					N/A		
		If yes or unknown, cor	nment o	on char	racteri	zation for	disposal.		-
		N/A							

2.12	Other	key assumptions	related to stors	ge, invent	tory, and gener	ation information:				
	None									
				3.0 WA	STE MINIM	IZATION				
3.1	Has a v	waste minimizati	on assessment b	een comp	leted for this st	ream?				
	□ '	Yes	X	No						
	If yes, 1	provide date asse	ssment conducte	d:		N/A				
	If yes, 1	provide documen	t number or othe	r identific	ation:					
	N/A									
	If no, p	rovide date asses	sment will be co	mpleted, c	or if waste stream	n is no longer generated, then indicate N/A:				
	See section 3.2 below.									
3.2	stream volume materia PFP is o product	(e.g., process che through segrege als): currently in a cleation of waste. Dur	anges to reduce ation and avoids an up and stabiliz	or elimination of contraction modern	ate LDR waste, mmingling, sub ie. Clean up an	g the generation of this methods to reduce estitution of less-toxic d stabilization operations tend to increase ram will seek to minimize waste production as				
3.3	much as possible.									
3.3	Waste minimization schedule									
	3.3.1	Reduction ach	ieved during ca	lendar ye	ar 2002 (volum	e or mass)				
		0.000	m3							
	3.3.2	Projected futu	re waste volum	e reductio	ns					
		Year	m ³	and/or	kg					
		2003	0.000							
		2004	0.000]	<u> </u>					
		2005	0.000	1						
		2006	0.000							
		2007	0.000							
		Total	0.000							

Bases and assumptions used in above estimates:

3.3.3

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	l.1 Unit/Plas	nt name:	WRAP		Waste Stres	m: TRUM-CH								
	Treatab	ilitiy Group Na	ıme:	TRUM - CH										
1.2	Applical	Applicable profile number(s) for this waste stream:												
	WSRds 2	WSRds 20D, 20L, 200, 201, 203, 220, and 230.												
1.3	Waste st	Waste stream source information												
	1.3.1	General desc maintenance		aste (e.g., spill clean-uj	waste, discarde	d lab materials,								
			nmed CH TRUM cks, chemicals, a		s, paper/cardboar	d, filters, rubber, wood, cloth/rags								
	1.3.2	History of ho	w and where th	e waste was/is generat	ed:									
		Laboratory, R facility, Radio laboratories, a from 1987-19	Kerr-McGee, the ochemistry Build and the Fuels De 1999. In addition,	Chemical Engineering ling, the Semi-works Dovelopment Laboratory.	Building, Post-Irr &D, Radiological The waste was g am will be from fi	aboratory, Materials Engineering adiation Test Facility, REDOX Calibrations Laboratory, research enerated and placed into storage inture 200 Area D&D activities (heat to WIPP.								
	1.3.3 Source of the regulated constituents:													
		Radiochemical operations around the site using hazardous chemicals, and D&D of such operations as noted in Section 1.3.2 of this data sheet.												
	1.3.4	Source of the information (e.g., analytical data, process knowledge, document number, etc.)												
		Analytical data, process knowledge.												
	1.3.5	Additional n	otes:											
						ises around the Hanford Site due to I/IPP is exempt from LDRs.								
	2.	2.0 WASTE STREAM STORAGE, INVENTORY, AND GENERATION INFORMATION												
	(NOTE:	For waste in	satellite accumul	ation areas and 90-day	accumulation are	as, skip to Section 2.6.)								
2.1	Current	t storage meth	od											
		Container (pad)	X	Container (covered)		Container (retrievably buried)								
	□ Т	ank		DST		SST								
		other (explain):												
	2.1.1	2.1.1 How was the waste managed prior to storage?												
	Waste w	Waste was generated and packaged at various locations around the Hanford Site.												

	2.1.2 Tim	eframe when wa	iste was	placed to	storage	e?					
		ced into storage to meet WIPP WA		1987 and	present	. Dru	ms at WR	AP are	undergoing verification a	nd	
.2	Storage inven	tory locations:									
	Building/Roor	n Number			Numbe	r of Co	ntainers/Ta	ınks			
	2336W				153						
.3	Current store	d inventory for t	his stres	am.							
	Total volume (cubic meters):			30.600)					
	Date of invent	ory values:		01/06/2	003						
	Comments on	waste inventory:									
		tuates on a daily l n Management Sy						e verific	cation and repackaging. I	nventor	
4	ls storage cap	acity at this loca	tion pot	entially a	n issue	for th	is waste st	tream?			
	☐ Yes		X	No							
	If yes, what is	the total estimate	d storag	e capacity	?		N/	Ά			
	When is this ca	apacity expected	to be rea	ched?			N/	Ά			
	Bases and assu	mptions used:									
	Due to proxim	ity to and interch	ange wit	th CWC, t	here is	no sto	rage capac	city issu	ie at WRAP.		
5	Planned stora	ge areas for this	waste:								
	Current	Location	×	CWC					DST		
	— Other A	rea(s) (list):						_			
	☐ None	,,,,									
		Estimated generation projection by calendar year (includes waste in satellite and 90-day accumulation areas):									
	Year	m³	and/or	k ;	g						
	2003	0.000									
	2004	0.000									
	2005	0.000		<u> </u>		•					
	2006	0.000		-							
	2007	0.000									
	Total	0.000									

2.7 DOE Storage Compliance Assessment information:

Assessment has been completed.

	ther. Explain:	lestenas na	lated to ston	ana at thin land	ation:	
	ble Tri-Party Agreement mi	restones fe	Due Date	age at this loc	auon:	
N/A	ne i venoci		N/A			
	re ever been any non-permit he environment?	ted, unaut	horized rele	ase of this was	ste strea	m from this storage
_ Y	es 🗶	No				
yes, s	ummarize releases and quanti	ties and pro	ovide date:			
/A						
re the	re any plans to submit reque	sts for var	iances or otl	er exemption	s relate	l to storage?
] Y	es 🔀	No				
yes, e	xplain: N/A					
harac	terization					
11.1	Is further characterization	needed al	out the was	te prior to ac	ceptance	for storage?
	Yes		No			Unknown at this time
	Milestone Number			Due Date		•
	N/A			N/A		
	If yes or unknown, commer	nt on charae	cterization fo	r storage.		
	The waste at WRAP is proc Energy Act disposal location is part of WRAP's ongoing	n. A com				
	Is further characterization	needed a	bout the was	te prior to ac	ceptance	for treatment?
.11.2	☐ Yes	X	No		□ r	Inknown at this time
.11.2						
.11.2	Milestone Number			Due Date		

	2.11.3	Is furt	Is further characterization needed about the waste prior to acceptance for disposal?										
			Yes	×	No	Unknown at this tim	e						
		Miles	stone Number			Due Date							
		N/A				N/A							
		If yes	or unknown, comn	nent on chara	cterization	for disposal.							
		N/A											
2.12	Other k	Other key assumptions related to storage, inventory, and generation information:											
	None.												
				3.0 V	VASTE M	INIMIZATION							
3.1	Has a w	aste mii	nimization assessn	ient been co	mpleted for	this stream?							
	☐ Y	es		⊠ No									
	If yes, p	rovide d	ate assessment con	ducted:		N/A							
	If yes, provide document number or other identification:												
	N/A												
	If no, pr	ovide da	ite assessment will	be complete	d, or if wast	e stream is no longer generated, then indica	ite N/A:						
	None cu	irrently s	scheduled see Se	ction 3.2.									
3.2	Provide details of current and proposed methods for minimizing the generation of this												
	stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingting, substitution of less-toxic materials):												
	package seek not	d separa	tely from LLW or ous alternatives for	TRU wastes. the dangerou	To minim	extent practical, all mixed waste is segregatize the generation of mixed waste, generate its in their processes. Minimization goals at to destroy the hazardous constituents, as all	ors actively are set						
3.3	Waste r	ninimizs	ition schedule										
	3.3.1	Reduc	tion achieved dur	ing calendar	year 2002	(volume or mass)							
			0.000 m3										

3.3.2 Projected future waste volume reductions

Year	m³	and/or	kg
2003	0.000		
2004	0.000		
2005	0.000		
2006	0.000		
2007	0.000		
Total	0.000		

3.3.3 Bases and assumptions used in above estimates:

Since subject waste has already been generated, no additional waste minimization activities are planned.

B-690 WRAP/

1.0 WASTE STREAM IDENTIFICATION

1.1	Treatab	ility Group	Name:								TRUM - L	arge Box
1.2	Descrip	Description of waste (list WSRd numbers for this waste stream, as applicable)										
	steel shi	elding, plas ad and lead :	tic/polyuret	hane, woo	d, pa	per/cardboa	ard, glass, filt	ers, soil	waste contains me , miscellaneous/un bents/kitty litter, c	iknown/o	ther,	
				2.0 WAS	TÈ	INVENT	ORY AND (GENEI	RATION			
2.1			•				aste only, no r this treatab					
	Total vo	olume (cubi	e meters):				72.000					
2.2		ted generati eets for this	_		nda	r year: [eq:	uais annuai s	ums of	location-specfic			
	Year		m ³	and/or		kg						
	2003		0.000]								
	2004 0.000 2005 0.000]									
			_	<u> </u>								
	200	06	0.000		<u></u>							
	200	07	0.000	_								
	To	tal	0.000	_								
				3.0 WAS	STE	STREAM	1 CHARAC	TERIZ	ZATION			
3.1	Radiolo	ogical Char	acteristics									
	3.1.1	Mixed w	aste type:			High-leve	·l	X	Transuranic		Low-level	
	3.1.2	Handling	g (as packa	ge content	s wo	uld need to	be handled	during	treatment):			
		⊠ Con	tact-handle	đ		Remote-h	andled					
	3.1.3			_			g., more spec fidence level)		ormation on conte	:nt,		
									ionuclide activity. or equal to 200			

mrem/hr on the outside of the package surface), however, the dose rate of some waste

inside the package may exceed 200 mrem/hr.

3.2	rnysicai Form										
	3.2.1	Physical form of the waste:									
		⊠ Solid	☐ Liquid	Semi-solid	Debris						
		Other (Describe in comments.)									
	3.2.2 Comments on physical form:										
		Waste in boxes typically contains metal debris as the primary physical form. The metal will need to be cut into smaller pieces to fit in a container acceptable to the WIPP. Most of the waste is TRUM contaminated metals which are also contaminated with di-n-octyl phthalate.									
3.3	Regulated constituents and wastewater/non-wastewater category										
	3.3.1	Wastewater/non-wastewater under RCRA									
		Wastewater	Non-wast	lewater	'n						
	3.3.2	Regulated constitu	uents table including treats	nent requirements and UHCs	, if applicable.						

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable Charac.	N/A	***	***	Remove characteristic (1)
D002	Corrosive Charac.	N/A	***	***	Remove characteristic (1)
D004	Arsenie	N/A	***	***	Exempt (61 FR 60704)
D005	Barium	N/A	***	***	Exempt (61 FR 60704)
D006	Cadmium	N/A	***	***	Exempt (61 FR 60704)
D007	Chromium	N/A	***	***	Exempt (61 FR 60704)
D008	Lead	N/A	***	***	Exempt (61 FR 60704)
D009	Mercury	N/A	***	***	Exempt (61 FR 60704)
D010	Selenium	N/A	***	***	Exempt (61 FR 60704)
D011	Silver	N/A	***	***	Exempt (61 FR 60704)
D014	Methoxychlor	N/A	***	***	Remove characteristic (1)
D018	Benzene	N/A	***	***	Exempt (61 FR 60704)
D019	Carbon Tetrachloride	N/A	***	4+*	Exempt (61 FR 60704)
D027	1,4-Dichlorobenzene	N/A	***	***	Exempt (61 FR 60704)
D028	1,2-Dichloroethane	N/A	***	***	Exempt (61 FR 60704)
D029	1,1-Dichlorethylene	N/A	***	***	Exempt (61 FR 60704)
D030	2,4-Dinitrotoluene	N/A	***	***	Exempt (61 FR 60704)
D031	Heptachlor	N/A	***	***	Remove characteristic (1)
D033	Hexachlorobutadiene	N/A	***	***	Remove characteristic (1)
D034	Hexachloroethane	N/A	***	***	Exempt (61 FR 60704)
D035	Methyl Ethyl Ketone	N/A	***	***	Exempt (61 FR 60704)
D036	Nitrobenzene	N/A	***	***	Exempt (61 FR 60704)
D040	Trichloroethylene	N/A	***	***	Exempt (61 FR 60704)

EPA/ State Number	Waste Description	LDR Sub- Category*	Concentration (Typical or Range)** Basis		LDR Treatment Concentration Standard or Technology Code	
D043	Vinyl chloride	N/A	***	***	Exempt (61 FR 60704)	
F001	1,1,1-Trichloroethane	Spent Solvent	***	***	Exempt (61 FR 60704)	
F001	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)	
F002	Trichloroethylene	Spent Solvent	***	***	Exempt (61 FR 60704)	
F003	Acetone	Spent Solvent	***	***	Exempt (61 FR 60704)	
F003	Xylene	Spent Solvent	***	***	Exempt (61 FR 60704)	
F004	Cresol	Spent Solvent	***	***	Exempt (61 FR 60704)	
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Exempt (61 FR 60704)	
WP01	Persistent, EHW	N/A	***	***	N/A	
WP02	Persistent, DW	N/A	***	***	N/A	
WSC2	Solid Corrosive	N/A	***	***	N/A	
WT01	Toxic, EHW	N/A	***	***	N/A	
WT02	Toxic, DW	N/A	***	***	N/A	
						

^{*} LDR Subcategory marked N/A if no existing subcategory adequately describes this waste, or if there are no defined subcategories for the waste number (40 CFR 268.40).

(1) Characteristic waste code not currently acceptable at WIPP.

3.3.3	List any waste numbers from Section 3.3.2 for which the waste stream aiready meets established LDR treatment standards.
	List: N/A
	No LDR treatment required (e.g. TRUM waste destined for WIPP, exclusion, etc.)
	None (i.e. all constituents/waste numbers of this waste stream still require treatment).

^{**} If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.

^{***} The concentration varies and is based on process knowledge and/or analytical data.

	3.3.4	Does this wa	ste stre	eam contain PC	Bs?						
		☐ Yes		×	No				Unknown		
		If no or unkn	own, si	kip to Section 3	.3.5.						
		3.3.4.1	Is wa	iste stream sub	ject to TSCA	regul	ations f	or P	CBs?		
				Yes			No				Unknown
		3.3.4.2	Indic	ate the PCB co	oncentration	range.					
				< 50 ppm			≥ 50 p	рт			Unknown
	3.3.5	What is the	onfide	ence level for th	ie regulated (constitu	uents?				
		☐ Low		X	Medium				High		
	3.3.6	Comments o	n regu	lated constitue	nts and wast	ewater	/non-w	astev	vater category	/:	
		box contains HLW tank co	F003 a ore sam	ncentration of cound F005 listed apples. One box ew boxes contain	contaminants contains trace	becaus quant	se it con	tains carbo	the remains o	f	
				4.0 W	ASTE STRI	EAM 1	rea7	ГМІ	ENT		
1	Is this v	vaste stream cı	ırrenti	y being treated	1?						
	☐ Ye	S		×	No						
	If yes, p	rovide details:		N/A							
2				he appropriate ns, including Ll		_		s fo	r treating this	waste	e stream
	□ No	treatment requ	ired (sl	kip to Section 5	.0)						
	⊠ Tre	eating or plan to	treat (on site							
	☐ Tre	eating or plan to	treat (off site							
	☐ Tre	eatment options	still b	eing assessed							
3	Planne	i treatment me	thod, i	facility, extent	of treatment	capaci	ty avail	able	:		
	debris in size of a	nto smaller piec	es so ti		ced in a smal	ler box	. WIPP	can	currently only	acce	t is to cut metal pt a box up to a ze reduction
4	Treatm	ent schedule in	forma	tion:							
	Treatme	ent is anticipate	d to be	performed as n	ecessary to st	upport	the resu	lts o	f the M-091 T	PA di	spute resolution.
5	Applica	ble Tri-Party	Agreen	nent treatment	milestone ni	umbers	(includ	ding	permitting):		

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	Milestone Number		Due Date	
	M-091-01			
4.6	Proposed new Tri-P	arty Agreement treatment m	ilestones:	
	See Section 4.4.			
4.7	If treating or planni and/or selecting the	ng to treat on site, was or will treatment method?	l waste minimization be	addressed in developing
	☐ Yes	☐ No	×	Unknown
	If yes, describe:	As the M-091 mission dev minimization techniques.	relops, T Plant Complex v	will evaluate, where possible, waste
4.8		tability equivalency petitions t or already in place.	, rulemaking petitions, a	nd case-by-case exemptions
	TRUM disposed of a	t WIPP is exempt from the LD	R treatment standards.	
4.9	Key Assumptions:			
	None.			
		5.0 WAST	E STREAM DISPOS	AL
	After treatment, how required, etc. as app		posed of (include locatio	ns, milestone numbers, variances
	TRUM is disposed of	at WIPP.		

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pl	ant name:	CWC		Waste Strea	ım:	TRUM Boxes					
	Treatal	oilitiy Group Na	ame:	TRUM - Large Box								
1.2	Applica	ible profile nun	nber(s) for this w	aste stream:								
	N/A											
1.3	Waste :	Waste stream source information										
	1.3.1	General desc maintenance	-	ste (e.g., spill clean-up	waste, discarde	d lab mate	rials,					
		sorbents. The processes. The	material was con		nic radionuclide	s from faci	eardboard, cement, and lity operations and R&D to be cut in order to fit in					
	1.3.2	1.3.2 History of how and where the waste was/is generated:										
		The waste was generated from the PFP, PUREX Plant, Radiochemistry Building, Critical Mass Storage, and Materials Engineering Laboratory.										
	1.3.3 Source of the regulated constituents:											
	Radiochemical operations around the site and D&D activities.											
	1.3.4	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)										
		Analytical da	ta and process kn	owledge.								
	1.3.5	Additional n	otes:									
		None.										
	2	2.0 WASTE ST	FREAM STOR	AGE, INVENTORY	, AND GENE	RATION	INFORMATION					
	(NOTE	: For waste in	satellite accumula	ition areas and 90-day a	ccumulation area	as, skip to S	Section 2.6.)					
2.1	Curren	t storage metho	od									
		Container (pad)	×	Container (covered)		Containe	r (retrievably buried)					
		Tank		DST		SST						
		Other (explain):										
	2.1.1	How was the	waste managed	prior to storage?								
	Accum	Accumulated and packaged by waste generators prior to storage.										
	2.1.2	Timeframe v	vhen waste was p	laced to storage?								
	Waste s	torage at CWC	began in 1988 an	d continues.								

Buil	ding/Roon	n Number			Number o	f Containe	ers/Tanks		
CW	C			·	17				
Curr	ent store	l inventory for (this strea	ım.					
Total	volume (cubic meters):			72.000				
Date	of invento	ory values:		01/06/2	2003				
Comr	nents on v	waste inventory:							
Inven	tory base	d on data for cor	ntainers re	esiding a	t the CWC	as repor	ted in the S	WITS.	
s sto	rage capa	icity at this loca	tion pote	entially a	ın issue fo	r this wa	ste stream?	•	
	Yes		X	No					
f yes	, what is t	he total estimate	d storage	e capacit	y?		N/A		
When	is this ca	pacity expected	to be rea	ched?			N/A		
Bases	and assu	mptions used:							
No is:	sues with	CWC storage ba	sed on 2	0 year w	aste genera	ition fore	cast.		
lent	ad stores	ge areas for this	waste:						
	ica aron al	,							
	Current 1	•	X	cwc				DST	
XI	Current	•		cwc				DST	
	Current	Location		cwc				DST	
	Current of Other And None	Location	X		ear (includ	les waste	in satellite		-day
SI Cathri	Current of Other And None	Location rea(s) (list): eration projection	X		ear (includ	les waste	in satellite		-day
Stim Ceun	Current in Other An None	Location rea(s) (list): eration projection	X	lendar y	ear (includ	les waste	in satellite		-day
Cathri	Other An None nated generalization a Year	Location rea(s) (list): eration projection areas): m ³ 0.000	⊠ on by ca!	lendar y		les waste	in satellite		-day
Cstim	Other An None mated generalization :	Location rea(s) (list): eration projection reas): m ³ 0.000 0.000	⊠ on by ca!	lendar y		les waste	in satellite		-day
Estim	Other An None nated general action a 2003 2004 2005	Location rea(s) (list): eration projection areas): m ³ 0.000 0.000	⊠ on by ca!	lendar y		les waste	in satellite		-day
Estimaceum	Other An None nated generalization : Year 2003 2004 2005	Location rea(s) (list): eration projection areas): m ³ 0.000 0.000 0.000	⊠ on by ca!	lendar y		les waste	in satellite		-day
Sstim Cocum	Other An None nated general action a 2003 2004 2005	Location rea(s) (list): eration projection areas): m ³ 0.000 0.000	⊠ on by ca!	lendar y		les waste	in satellite		-day

Milesto	ne Numbe	<u>r </u>	 .		Due Date			
M-020-	12				10/31/19	91		
	re ever be he enviro	-	ermitted	i, unaut	horized rel	ease of this was	te stre	am from this storage
□ Y	es		X	No				
If yes, su	ımmarize	releases and	quantitie	s and pr	ovide date:			
N/A								
Are the	re any pla	ans to submit	requests	for val	lances or o	ther exemption	s relat	ed to storage?
□ Y	es		X	No				
If yes, e	xplain:	N/A						
Charact	terization	1						
2.11.1	Is furti	her character	ization n	eeded a	bout the wa	aste prior to acc	eptano	e for storage?
	□ ·	Yes		X	No			Unknown at this time
	Milan	tone Number				Due Date		
	N/A	tone Number				N/A		7
	L	•		1				_
	-	or unknown, c	omment (on chara	cterization	for storage.		
	N/A							
		her character	ization n			aste prior to ac		te for treatment? Unknown at this time
2.11.2					N o			
2.11.2		Yes		X	No			Olikilown at this time
2.11.2		Yes		×	NO	Due Date		Clikilowii at tilis title
2.11.2				<u>×</u>		Due Date	<u></u>	
2.11.2	Miles N/A	Yes tone Number	omment		-u.	N/A		
2.11.2	Miles N/A If yes	Yes tone Number	omment		-u.			
	Miles N/A If yes o	Yes tone Number or unknown, c		on char	acterization	N/A for treatment.		
2.11.2 2.11.3	Miles N/A If yes o	Yes tone Number or unknown, c		on char	acterization	N/A for treatment.		ce for disposal?
	Miles N/A If yes o	Yes tone Number or unknown, c		on char	acterization	N/A for treatment.		
	Miles N/A If yes o	Yes tone Number or unknown, c		on char	acterization	N/A for treatment.		ce for disposal?

2.12	Other	kev assumptions	related to stors	ıge, invent	orv. and gener	ation information:		
	None.				,, g -m-r			
				3.0 WA	STE MINIM	IZATION		
3.1	Has a v	waste minimizati	on assessment b	een comp	leted for this st	ream?		
		Yes	×	No				
	If yes, provide date assessment conducted: N/A							
	If yes, provide document number or other identification:							
	N/A							
	If no, provide date assessment will be completed, or if waste stream is no longer generated, then indicate N/A:							
	None p	lanned - waste no	t generated at C	WC.				
3.2	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials): These activities occur before the wastes are transferred/shipped to CWC. There are few opportunities to reduce							
	waste v	olumes placed int	to storage.					
3.3	Waste 1	minimization sch	edule					
	3.3.1	Reduction ach	ieved during ca	lendar ye	ar 2002 (volum	e or mass)		
		0.000	m3					
	3.3.2	Projected futu	re waste volum	e reductio	ns			
		Year	m ³	and/or	kg			
		2003	0.000]				
		2004	0.000	_				
		2005	0.000	_				
		2006	0.000	4				
		2007	0.000	i				
		Total	0.000					

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation by CWC.

1.0 WASTE STREAM IDENTIFICATION

1.1	Treatabi	ity Group Name:					TRUM - PCB
1.2	Descripti	on of waste (list WSR	d numbers fo	or this waste strea	n, as applicat	ole)	
	tubes), co	e contains metal, plasti ncrete, rags, absorbent ne light ballasts are typ	kitty litter, ru	abber, soil, and tap	e/rope designa	ited as TRUM con	taminated with
		2	.0 WASTE	INVENTORY A	AND GENE	RATION	
2.1		total inventory for thi Equals sum of locatio					
	Total vol	ıme (cubic meters):		110.010)		
2.2		d generation projection ts for this treatability		r year: [equals an	nual sums of	iocation-specfic	
	Year	m ³	and/or	kg			
	2003	0.000					
	2004	1.910					
	2005	1.040	<u> </u>				
	2006	1.700	<u> </u>				
	2007	0.320					
	Tota	5.030					
		:	3.0 WASTE	STREAM CHA	RACTERIZ	ZATION	
3.1	Radiolog	ical Characteristics					
	3.1.1	Mixed waste type:		High-level	X	Transuranic	Low-level
	3.1.2	Handling (as packag	contents we	ould need to be ha	ndled during	treatment):	
		Contact-handled		Remote-handled			
	3.1.3	Comments on radioletreatment concerns of	_			ormation on conte	nt,
		The waste contain mo	re than 100 n	Ci/g of transuranic	radionuclides	3.	
3.2	Physica	l Form					
	3.2.1	Physical form of the	waste:				
		⊠ Solid	☐ Liqu	id	☐ Semi-se	olid 🔀	Debris
		Other (Describe	in comments.)			
	3.2.2	Comments on physic	al form:				
		Matrix characteristics that PCB contamination		antly from package	to package.	High confidence	

3.3	Regula	ted constituents and waste	water/non-wastewater category	
	3.3.1	Wastewater/non-wastev	water under RCRA	
		Wastewater	Non-wastewater ■	Unknown
	3.3.2	Regulated constituents t	table including treatment requir	ements and UHCs, if applicable.

EPA/ State Number	Waste Description	LDR Sub- Category*	Cencentration (Typical or Range)**	Basis	LDR Treatment Concentration Standard or Technology Code
D001	Ignitable Charac.	N/A	***	***	Remove characteristic (1)
D004	Arsenic	N/A	***	***	Exempt (61 FR 60704)
D006	Cadmium	N/A	***	***	Exempt (61 FR 60704)
D007	Chromium	N/A	***	***	Exempt (61 FR 60704)
D008	Lead	N/A	***	***	Exempt (61 FR 60704)
D009	Mercury	N/A	***	***	Exempt (61 FR 60704)
D010	Selenium	N/A	***	***	Exempt (61 FR 60704)
D011	Silver	N/A	***	***	Exempt (61 FR 60704)
D027	1,4-Dichlorobenzene	N/A	***	***	Exempt (61 FR 60704)
D030	1,2-Dichloroethane	N/A	***	***	Exempt (61 FR 60704)
D032	Hexachlorobenzene	N/A	***	***	Exempt (61 FR 60704)
D034	Hexachloroethane	N/A	***	***	Exempt (61 FR 60704)
D036	Nitrobenzene	N/A	***	***	Exempt (61 FR 60704)
D037	Pentachlorophenol	N/A	+++	***	Exempt (61 FR 60704)
D042	2,4,6-Trichlorophenol	N/A	+++	***	Remove characteristic (1)
F001	1,1,1-Trichloroethane	N/A	***	***	Exempt (61 FR 60704)
F001	Trichloroethylene	N/A	•••	***	Exempt (61 FR 60704)
F002	Methylene Chloride	Spent Solvent	***	***	Exempt (61 FR 60704)
F002	Trichloroethylene	N/A	***	***	Exempt (61 FR 60704)
F003	Acetone	Spent Solvent	***	***	Exempt (61 FR 60704)
F004	Cresols	Spent Solvent	+**	***	Exempt (61 FR 60704)
F005	Methyl Ethyl Ketone	Spent Solvent	***	***	Exempt (61 FR 60704)
WSC2	Solid Corrosive	N/A	+++	***	N/A
WT01	Toxic, EHW	N/A	***	***	N/A

EPA Stat Numi	te	Was	te Desc	ription	LDR Sub- Category*		Concents (Typics Range	ıl or	Basis	LDR Treatment Concentration Standard or Technology Code
WT02		Toxic, D	w		N/A	T	***	***	· <u>.</u>	N/A
* LDR subcate	Subce	tegory mar for the wa	ked N/ ste nun	A if no existi nber (40 CFR	ng subcategory add 268.40).	equately	describes thi	s waste, or if	there are	ло defined
** If w	aste is	not consist	tent in	concentration	, this may not appl	ly. Desc	ribed in Secti	on 3.3.6.		
*** Th	e conc	entration v	aries aı	nd is based or	process knowledg	ge and/o	r analytical de	ita.		
(1) Cha	racter	istic waste	code ne	ot currently a	cceptable at WIPP.					
3.3.3					Section 3.3.2 for ent standards.	which	the waste s	tream alrea	dy	
		List:								
	X	No LDR	treatn	nent require	d (e.g. TRUM w	aste de	stined for W	TPP, exclusi	on, etc.)	
		None (i.e treatmen		onstituents/	waste numbers o	f this w	aste stream	still require		
3.3.4	Doe	s this was	te stre	am contain	PCBs?					
	X	Yes			□ No			Unknown		
	If no	or unkno	wn, sl	cip to Section	n 3.3.5.					
	3.3.	4.1	Is ws	ste stream	subject to TSC	\ regul	ations for P	CBs?		
			\times	Yes			No			Unknown
	3.3.4	1.2	Indic	ate the PCI	B concentration	range.				
				< 50 ppm		X	≥ 50 ppm			Unknown
3.3.5	Wha	at is the co	onfide	nce level fo	r the regulated (constitu	ients?			
		Low		-	Medium			High		
3.3.6	Con	ments on	regul	ated consti	tuents and wast	ewater	non-wastev	vater catego	ry:	
	Non	e.								
				4.0	WASTE STRE	EAM T	REATME	CNT		
s this w	aste s	tream cui	rently	being trea	ted?					
Yes				ĺ	X No					
f yes, pr	ovide	details:		N/A						

4.2	Planned treatment: Check the appropriate box indicating future plans for treating this waste stream to meet applicable regulations, including LDR treatment standards.
	No treatment required (skip to Section 5.0)
	Treating or plan to treat on site
	Treating or plan to treat off site
	Treatment options still being assessed
4.3	Planned treatment method, facility, extent of treatment capacity available:
	Waste is planned to be treated under the proposed M-091 capability. Possible treatment techniques include thermal treatment (e.g. molten salt oxidation, vitrification, pyrolysis) or chemical treatment (e.g. chemical oxidation, chemical reduction, or dechlorination) or none if not required by WIPP.
4.4	Treatment schedule information:
	Treatment is anticipated to be performed as necessary to support the results of the M-091 TPA dispute resolution.
4.5	Applicable Tri-Party Agreement treatment milestone numbers (including permitting):
	Milestone Number Due Date
	M-091-01
4.6	Proposed new Tri-Party Agreement treatment milestones:
	See Section 4.4.
4.7	If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?
	Yes No Unknown
	If yes, describe: One treatment operation will likely consist of box opening and sorting of the ballasts into separate containers. This action alone will substantially reduce the PCB waste volume.
4.8	List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.
	TRUM disposed of at WIPP is exempt from the LDR treatment standards.
4.9	Key Assumptions:
	None.
	5.0 WASTE STREAM DISPOSAL
	After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):
	TRUM is disposed of at WIPP.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pl	ant name:	325 HWTU		Waste Stream:	TRUM PCB
	Treata	bilitiy Group Nan	ne:	TRUM - PCB		
1.2	Applica	able profile numb	er(s) for this v	vaste stream:		
	PNNL-	230-0001-00, PNN	√L-250-0001-0	00		
1.3	Waste	stream source info	rmation			
	1.3.1	General descrip	-	aste (e.g., spill clean-up	waste, discarded lab	materiais,
		Subject waste w	as generated f	rom PNNL laboratory o	perations.	
	1.3.2	History of how	and where the	e waste was/is generate	d:	
		Waste is genera	ted from routin	ne laboratory operations	at PNNL.	
	1.3.3	Source of the re	egulated const	ituents:		
			rganic regulate	-		ds that are contaminated wit Bs. This waste stream also
	1.3.4	Source of the in	ıformation (e.	g., analytical data, proc	cess knowledge, docu	ment number, etc.)
		Wastes are char	acterized as sp	ecified in PNNL Waste	Stream Profiles.	
	1.3.5	Additional note	es:			
		N/A				
	2	2.0 WASTE STR	REAM STOR	RAGE, INVENTORY	Y, AND GENERAT	ION INFORMATION
	(NOTE	: For waste in sat	ellite accumula	ation areas and 90-day a	ccumulation areas, ski	ip to Section 2.6.)
2.1	Curren	t storage method				
		Container (pad)	\boxtimes	Container (covered)	Con	tainer (retrievably buried)
		Tank		DST	☐ SST	•
		Other (explain):				
	2.1.1	How was the w	aste managed	prior to storage?		
	Waste v	vas managed in 90	day or Satellit	e Accumulation areas p	rior to being transferre	ed to storage.
	2.1.2	Timeframe who	en waste was p	placed to storage?		
	The wa 2/26/02		low and curre	ntly stored at 325 HWT	U were placed in stora	ige between 10/24/1997 adn

Cotal volume (cubic meters): Oute of inventory values: O1/10/2003 Comments on waste inventory: Chis represents the TRUM wastes containing PCBs currently in this storage location. It is storage capacity at this location potentially an issue for this waste stream? Yes No f yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Planned storage areas for this waste: Current Location CWC DST	meters): 0.010 lues: 01/10/2003 inventory: RUM wastes containing PCBs currently in this storage location. at this location potentially an issue for this waste stream? No tal estimated storage capacity? N/A by expected to be reached? N/A ons used: cas for this waste: cion	Current stored inventory for this stream. Total volume (cubic meters): 0.010 Date of inventory values: 01/10/2003 Comments on waste inventory: This represents the TRUM wastes containing PCBs currently in this storage location. Is storage capacity at this location potentially an issue for this waste stream? Yes No Yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
Date of inventory values: O1/10/2003 Comments on waste inventory: This represents the TRUM wastes containing PCBs currently in this storage location. Is storage capacity at this location potentially an issue for this waste stream? Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST	meters): 0.010 lues: 01/10/2003 inventory: RUM wastes containing PCBs currently in this storage location. At this location potentially an issue for this waste stream? No tal estimated storage capacity? N/A y expected to be reached? N/A ons used: cas for this waste: cion	Date of inventory values: 01/10/2003 Comments on waste inventory: This represents the TRUM wastes containing PCBs currently in this storage location. Is storage capacity at this location potentially an issue for this waste stream? Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
Date of inventory values: O1/10/2003 Comments on waste inventory: This represents the TRUM wastes containing PCBs currently in this storage location. Is storage capacity at this location potentially an issue for this waste stream? Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST	inventory: CRUM wastes containing PCBs currently in this storage location. At this location potentially an issue for this waste stream? No tal estimated storage capacity? N/A y expected to be reached? N/A ons used: CWC DST (list):	Comments on waste inventory: This represents the TRUM wastes containing PCBs currently in this storage location. Is storage capacity at this location potentially an issue for this waste stream? Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
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This represents the TRUM wastes containing PCBs currently in this storage location. Is storage capacity at this location potentially an issue for this waste stream? Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST	RUM wastes containing PCBs currently in this storage location. at this location potentially an issue for this waste stream? No tal estimated storage capacity? N/A y expected to be reached? N/A ons used: cas for this waste: cion CWC DST (list):	This represents the TRUM wastes containing PCBs currently in this storage location. Is storage capacity at this location potentially an issue for this waste stream? Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
Is storage capacity at this location potentially an issue for this waste stream? Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST	No tal estimated storage capacity? N/A y expected to be reached? N/A ons used: cas for this waste: cion CWC DST (list):	Is storage capacity at this location potentially an issue for this waste stream? Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
Yes No If yes, what is the total estimated storage capacity? When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST	No tal estimated storage capacity? N/A y expected to be reached? N/A ons used: cas for this waste: cion CWC DST (list):	Yes No If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST	tal estimated storage capacity? N/A y expected to be reached? N/A ons used: cas for this waste: cion CWC DST (list): on projection by calendar year (includes waste in satellite and 90-day)	If yes, what is the total estimated storage capacity? N/A When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
When is this capacity expected to be reached? N/A Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST	y expected to be reached? N/A ons used: cas for this waste: cion	When is this capacity expected to be reached? Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
Bases and assumptions used: N/A Planned storage areas for this waste: Current Location DST	ons used: cas for this waste: cion	Bases and assumptions used: N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
N/A Planned storage areas for this waste: Current Location CWC DST	cas for this waste: cion	N/A Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
Planned storage areas for this waste: Current Location CWC DST	cion	Planned storage areas for this waste: Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
☐ Current Location ☐ CWC ☐ DST	cion	Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
☐ Current Location ☐ CWC ☐ DST	cion	Current Location CWC DST Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-diaccumulation areas):
	on projection by calendar year (includes waste in satellite and 90-day	Other Area(s) (list): None Estimated generation projection by calendar year (includes waste in satellite and 90-deaccumulation areas):
Other Area(s) (list):	on projection by calendar year (includes waste in satellite and 90-day	None Estimated generation projection by calendar year (includes waste in satellite and 90-deaccumulation areas):
-		accumulation areas):
		accumulation areas):
accumulation areas):		Vear m ³ and/or kg
Year m ³ and/or kg	m ³ and/or kg	
2003 0.000	0.000	2003 0.000
2004 0.000	0.000	2004 0.000
2005 0.000		2005 0.000
2006 0.000		2006 0.000
	0.000	2007 0.000
2007 0.000	0.000	Total 0.000
2005 0.000		2005 0.000
2006 (0.000 (0.000	
	0.000	
	0.000 0.000 0.000	Total 0.000

N/A	one Number			Due Da			
L							
	re ever been any non-p the environment?	ermitte	d, una	uthorized re	elease of this wa	ste stre	am from this storage
י ם	es es	\boxtimes	No				
If yes, s	ummarize releases and	quantitie	s and p	rovide date	:		
N/A							
Are the	re any plans to submit	request	s for v	riances or	other exemption	ns relat	ed to storage?
י ם	res res	\boxtimes	No				
If yes, e	xplain: N/A						
Charac	terization						
2.11.1	Is further characteri	zation n	eeded	about the w	aste prior to ac	ceptano	ce for storage?
	☐ Yes		X	No			Unknown at this time
	Milestone Number				Due Date		
	N/A				Due Date N/A		7
		·,					_1
	If yes or unknown, co	mment o	on char	acterization	for storage.		
	N/A						
2.11.2	Is further characteriz	zation n	eeded :		aste prior to ac	_	
	Yes Yes		\boxtimes	No			Unknown at this time
	Milestone Number				Due Date		
	N/A				N/A		٦
	<u> </u>					·· ··	۲.
	If yes or unknown, co	mment o	on char	acterization	for treatment.		
	N/A						
2.11.3	Is further characteriz	zation n			aste prior to ac	•	-
	☐ Yes		X	No			Unknown at this time
							•
	Milestone Number				Due Date		

2.12 Other key assumptions related to storage, inventory, and generation information:

PNNL Waste Management requests full chemical and radiological characterization from the laboratory generators prior to receiving the waste into the 325 HWTU. However, further confirmatory NDA may be performed on TRUM packages that are consolidated at the 325 HWTU. No TPA milestone is directly associated with storage of this waste stream.

3.0 WASTE MINIMIZATION

3.1	Has a	waste minimizati	on assessment be	een compl	eted for this st	ream?	
		Yes	\boxtimes	No			
	If yes,	provide date asses	ssment conducted	ł:		N/A	
	If yes,	provide documen	t number or other	r identifica	tion:		
	N/A						
	If no, p	rovide date assess	sment will be cor	npleted, o	r if waste strear	n is no longer generated, then indicate N	I/A:
	Assess	ment date to be de	etermined.				
3.2	stream	(e.g., process ch through segrega	anges to reduce	or elimins	te LDR waste,	the generation of this methods to reduce stitution of less-toxic	
	used in	•	Radioactive Was	ste Operati	ons Group rout	ess reagents or less hazardous reagents inely assess the possibility of bulking as CWC.	
3.3	Waste	minimization sch	edule				
	3.3.1	Reduction ach	lieved during ca	lendar ye:	er 2002 (volum	e or mass)	
		0.000	m3				
	3.3.2	Projected futu	ire waste volume	e reductio	ns		
		Year	m³	and/or	kg		
		2003	0.000]			
		2004	0.000]			
		2005	0.000]			
		2006	0.000				
		2007	0.000				
		Total	0.000				

3.3.3 Bases and assumptions used in above estimates:

Projects generating wastes usually have strict requirements for process outcomes. Hence, it is not possible to project specific volume reductions. As noted in Section 3.2, each project generating this type of waste is reviewed to assure the waste volumes generated are minimized.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pla	nt name:	CWC			Waste Stre	ım:	TRUM PCBs
	Treatab	ilitiy Group Na	me:	TRU	ЛМ - РСВ			
1.2	Applica	ble profile num	ber(s) for this v	vaste sti	eam:			
	N/A							
1.3	Waste s	tream source ir	formation					
	1.3.1	General desc maintenance	-	aste (e.g	., spill clean-up	waste, discarde	d lab mate	rials,
					_		-	c liquids, cloth/rags, inated with PCBs.
	1.3.2	History of ho	w and where th	e waste	was/is generate	d:		
		The waste wa	s generated from	facility	or equipment o	peration and mai	ntenance w	aste.
	1.3.3	Source of the	regulated const	ituents:				
		Hydraulic flui	ds containing Po	CBs.				
	1.3.4	Source of the	information (e.	g., analy	ytical data, pro	cess knowledge,	document	number, etc.)
		Analytical dat	a and process ki	nowledg	e.			
	1.3.5	Additional ne	tes:					
		None.						
	2.	.0 WASTE ST	REAM STOR	RAGE,	INVENTORY	Y, AND GENE	RATION	INFORMATION
	(NOTE:	For waste in s	atellite accumul	ation are	as and 90-day a	ccumulation area	ıs, skip to S	Section 2.6.)
2.1	Current	storage metho	đ					
		ontainer (pad)	X	Conta	ner (covered)		Container	(retrievably buried)
	□ T	ank		DST			SST	
	□ 0	ther (explain):						
	2.1.1	How was the	waste managed	prior to	storage?			
	Accumu	lated and packa	ged by waste ger	nerator p	orior to storage a	at CWC.		
	2.1.2	Timeframe w	hen waste was j	placed t	o storage?			
	1988-20	02.						
2.2	Storage	inventory loca	ions:					
	Buildin	g/Room Number			Number of Cor	ntainers/Tanks		
	cwc				122			

2.3	Current stored inventory for t	his strea	m.		
	Total volume (cubic meters):		1	10.000	
	Date of inventory values:		01/06/20	03	
	Comments on waste inventory:				
	Inventory based on data for con	tainers re	siding at	the CWC as reported	in the SWITS.
2.4	Is storage capacity at this loca	tion pote	ntially an	issue for this waste	stream?
	Yes	X	No		
	If yes, what is the total estimate	d storage	capacity?	• 1	N/A
	When is this capacity expected	to be rea	ched?	1	N/A
	Bases and assumptions used:				
	No issues with CWC storage ba	sed on 2	0 year was	ste generation foreca	st.
2.5	Planned storage areas for this	waste:			
	Current Location	\boxtimes	CWC		□ DST
	Other Area(s) (list):				
	None None				
2.6	Estimated generation projecti	on by cal	lendar ye:	ar (includes waste ir	satellite and 90-day
	accumulation areas):				
	Year m³	and/or	kg	·	
	2003 0.000		<u> </u>		
	2004 0.000 2005 0.000	-	ļ		
	2006 0.000	1			
	2007 0.000				
	Total 0.000]			
2.7	DOE Storage Compliance Ass	essment	informati	on:	
	Assessment has been con	mpleted.			
	Document Number				Date
	A&E-SEC-02-001				01/21/2002
	Assessment has been sch	neduled.	Scheduled	l date:	
	Other. Explain:				
2.8	Applicable Tri-Party Agreeme	ent miles	tones rela	ted to storage at th	s location:
	Milestone Number			Due Date	
	M-020-12	·		10/31/1991	
					l

	Yes	X	No				
_	- ••			سفمات ماداد مست			
•	summarize releases an	u quannae	s anu j	MOVIDE UALE	•		
N/A							
Are the	ere any plans to subm	it request	s for v	ariances or	other exemption	ns rela	ted to storage?
	Yes	\boxtimes	No				
If yes,	explain: N/A						
Charac	terization						
2.11.1	Is further characte	rization n	eeded	about the w	vaste prior to ac	ceptan	ce for storage?
	Yes		X	No			Unknown at this time
	Milestone Number				Due Date		
	N/A				N/A		
	TE vos on unimoven						_
	If yes or unknown,	comment	JII ÇNAI	acterization	for storage.		
	N/A						_
				akani ika m		canton	ice for treatment?
2.11,2	Is further characte	rization n	_		vaste prior to ac	-cptan	
2.11,2	Yes	rization n	eeaea X	No No	vaste prior to ac		Unknown at this time
2.11,2		rization n	_		vaste prior to ac Due Date		
2.11,2	Yes	rization n	_				
2.11,2	Milestone Number		X	No	Due Date		
2.11,2	Milestone Number N/A If yes or unknown,		X	No	Due Date		
	Milestone Number N/A If yes or unknown, N/A	comment o	on chai	No	Due Date N/A for treatment.		Unknown at this time
2.11.2 2.11.3	Milestone Number N/A If yes or unknown, N/A Is further character	comment o	on char	No racterization	Due Date N/A for treatment.		Unknown at this time
	Milestone Number N/A If yes or unknown, N/A	comment o	on chai	No	Due Date N/A for treatment.		Unknown at this time
	Milestone Number N/A If yes or unknown, N/A Is further character Yes	comment o	on char	No racterization	Due Date N/A for treatment.		Unknown at this time
	Milestone Number N/A If yes or unknown, N/A Is further characte	comment o	on char	No racterization	Due Date N/A for treatment.		Unknown at this time
	Milestone Number N/A If yes or unknown, N/A Is further characte Yes Milestone Number N/A	comment o	on char	No racterization about the w	Due Date N/A for treatment. vaste prior to ac Due Date N/A		Unknown at this time
	Milestone Number N/A If yes or unknown, N/A Is further characte Yes Milestone Number	comment o	on char	No racterization about the w	Due Date N/A for treatment. vaste prior to ac Due Date N/A		Unknown at this time

3.0 WASTE MINIMIZATION

3.1	Has a w	aste minimizatio	n assessment b	een compl	eted for this str	ream?						
	۱ 🗆	?es	X	No								
	If yes, p	rovide date asses	sment conducte	d:		N/A						
	If yes, p	rovide document	number or othe	r identifica	tion:							
	N/A											
	If no, p	rovide date assess	ment will be co	mpleted, or	r if waste stream	n is no longer generated, then indicate N/A:						
	None pl	lanned - waste no	t generated at C	WC.								
3.2	stream	(e.g., process cha through segrega	inges to reduce	or elimina	te LDR waste,	the generation of this methods to reduce stitution of less-toxic						
		zation activities o s placed into stora		waste is sh	ipped to CWC.	There are few opportunities to reduce wast	e					
3.3	Waste minimization schedule											
	3.3.1	Reduction ach	ieved during c	alendar ye	ar 2002 (volum	e or mass)						
		0.000	m3									
	3.3.2	Projected futu	re waste volun	ne r educti o	ns							
		Year	m³	and/or	kg							
		2003	0.000]								
		2004	0.000									
		2005	0.000	_								
		2006	0.000	_								
		2007	0.000									
		Total	0.000									

3.3.3 Bases and assumptions used in above estimates:

There is no projected generation from CWC.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Pla	nt name:	PFP		Waste Stream:	Hydraulic Fluids and Associated Debris					
	Treatabi	litly Group Na	me:	TRUM - PCB							
1.2	Applicat	ole profile num	ber(s) for this w	aste stream:							
	PFPX-20	H-0001.									
1.3	Waste st	ream source in	formation								
	1.3.1	General descr maintenance	_	ste (e.g., spill clean-u	p waste, discarded lab mi	iterials,					
		Radiologically debris.	contaminated s	pent PCB hydraulic oi	l and capacitor fluid and as	sociated contaminated					
	1.3.2	History of hov	wand where the	waste was/is generat	ed:						
	PCB oil was used in PFP for hydraulic systems and as a conductive medium in electrical cap induction furnaces. The PCB oil is contained within the original system where originally use hydraulic fluid. Waste not yet generated. Fluids still reside in capacitors.										
	1.3.3 Source of the regulated constituents:										
	Intrinsically hazardous.										
	1.3.4 Source of the information (e.g., analytical data, process knowledge, document number, etc.)										
		Analytical data	a, process knowl	edge.							
	1.3.5	Additional no	tes:								
		None.									
	2.0) WASTE ST	REAM STOR	AGE, INVENTOR	Y, AND GENERATIO	N INFORMATION					
	(NOTE:	For waste in sa	atellite accumula	tion areas and 90-day	accumulation areas, skip t	Section 2.6.)					
2.1	Current	storage method	d								
	□ Co	ntainer (pad)		Container (covered)	Contain	ner (retrievably buried)					
	☐ Ta	nk		DST	☐ SST						
	Ot	her (explain):									
	2.1.1	How was the	waste managed j	prior to storage?							
	N/A										
	2.1.2	Timeframe w	hen waste was p	laced to storage?							
	N/A										

Storage invent	ory locations:							
Building/Room	Number		· · · · · · · · · · · · · · · · · · ·	Number	of Conta	ainers/Tanks		
		·						
Current stored	inventory for	this stres	tm.					
Total volume (c	ubic meters):							
Date of invento	ry values:							
Comments on v	vaste inventory:							
Is storage capa	city at this loca	tion pot	entially a	n issue !	for this	waste stream?		
☐ Yes		\mathbf{X}	No					
If yes, what is the	he total estimate	d storag	e capacity	/?		N/A		
When is this cap	pacity expected	to be rea	ched?			N/A		
Bases and assur	nptions used:							
N/A								
Planned storag	e areas for this	waste:						
Current I	Location	\boxtimes	cwc				DST	
Other Ar	ea(s) (list):							
None None					J			
Estimated gene	eration projecti	on by ca	lendar ye	ear (incl	udes wa	iste in satellite	and 90-day	,
accumulation s			•	·			•	
Year	m³	and/or	k	g				
2003	0.000	1						
2004	1.910	4						
2005	1.040	-						
2006	1.760	1						
Total	5.030	1	-	===				
		1	<u> </u>					
DOE Storage (Compliance Ass	essment	informa	tion:				
X Assessme	ent has been co	mpleted.						
Document Num	iber		<u> </u>			Date		_
PFP Env. Comp Ltr. #01-A&E-						09/13/200)1	

	☐ A:	sessment has beer	scheduled.	Sched	uled date:			
	□ Ot	her. Explain:						
2.8	Applicat	le Tri-Party Agre	ement mile	stones	related to stors	nge at this l	ocation:	
		ne Number			Due Date			
	N/A				N/A			
2.9		e ever been any n ne environment?	on-permitte	d, una	uthorized relea	se of this w	/aste strea	m from this storage
	□ Ye	es	X	No				
	If yes, su	mmarize releases	and quantitie	s and p	provide date:			
	N/A							
2.10	Are ther	e any plans to sub	mit request	s for v	ariances or oth	er exemptic	ons relate	d to storage?
	□ Ye	s	\boxtimes	No				
	If yes, ex	plain: N/A						
2.11	Characte	erization						
	2.11.1	Is further charac	cterization n	eeded	about the wast	te prior to a	cceptance	e for storage?
		Yes			No			Unknown at this time
		Milestone Numbe	••			Due Date		
		N/A				N/A]
								1
		If yes or unknow Will be character needs on this ML	ized before t				t is necess	ary for the characterizatio
	2.11.2	Is further charac		seded	shout the west	te prior to s	accents no	e for treatment?
	4.11.4	Yes	Lici izmiloji i	IXI	No			Jnknown at this time
		L. 195						
		Milestone Numbe	er			Due Date		-
		N/A			<u></u> .	N/A]
		If yes or unknow	n, comment	on cha	racterization fo	r treatment.		
		N/A						
	2.11.3	Is further chara	cterization r	eeded	about the was	te prior to a	acceptanc	e for disposal?
		Yes		X	No		_ t	Jnknown at this time
		Milestone Numb	er			Due Date		
		N/A	·			N/A		

		it yes or unkno	wn, comment or	i charactei	ization for disp	osai.
		N/A				
2.12	Other	key assumptions	related to storag	ge, invento	ry, and genera	tion information:
	None.					
				3.0 WAS	STE MINIMI	ZATION
3.1	Has a	waste minimizatio	on assessment b	een compl	eted for this sti	ream?
	\boxtimes	Yes		No		
	If yes,	provide date asses	sment conducted	l:		CY 2001
	If yes,	provide document	number or other	identifica	ition:	
	-	-				Streams, Letter # M2100-02-016
	If no, p	provide date assess	ment will be cor	npleted, o	r if waste strean	n is no longer generated, then indicate N/A:
	volume materi PFP ha types of reducti	e through segregs (als): as a waste minimiz of pollution and wa (on, is the preferre	ation and avoida eation program. aste generating a d option, followe	A hierarch ctivities. I	nmingling, sub nical approach to Pollution prever ronmentally safe	methods to reduce stitution of less-toxic o environmental management is applied to all and and waste minimization, through source recycling. Treatment to reduce the quantity or recycling is not possible or practical.
	Enviro	nmentally safe dis	posal is the last	option. Se	gregation is app	plicable in all of these activities.
3.3	Waste	minimization sch	edule			
	3.3.1	Reduction ach	ieved during ca	lendar ye	ar 2002 (volum	e or mass)
		0.000	m3			
	3.3.2	Projected futu	re waste volum	e reductio	ns	
		Year	m ³	and/or	kg	
		2003	0.000			
		2004	0.000			
		2005	0.000			
		2006	0.000	4		
		2007	0.000			
		Total	0.000			

3.3.3 Bases and assumptions used in above estimates:

PFP is currently in a clean up and stabilization mode. Clean up and stabilization operations tend to increase production of waste. PFP has a waste minimization program which looks for further opportunities to reduce waste production or produce waste in a less hazardous form.

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1.0 WASTE STREAM IDENTIFICATION

1.1	Treatal	bility Gro	oup Name:								TRUM - RH
1.2	Descrip	tion of w	aste (list WSF	ld numbe	rs fo	r this waste strea	m, as appli	cab	le)		
	The wa	The waste consists of inner container, iron-based metals, lead, soil, lead shielding, and steel shielding. Waste is from the clean-out of hot cells from research/development laboratories. The relative waste quantity is small, because the waste matrix contains a large percentage of lead and steel shielding materials.									
				2.0 WAS	TE	INVENTORY A	AND GEN	1EF	RATION		
2.1			•			m (stored waste or ta sheets for this t	-				
	Total ve	olume (cu	ibic meters):			56.624	4				
2.2		•	ation projecti his treatabilit	•	enda	r year: [equals an	inual sums	of l	ocation-specfic		
	Ye	ar	m³	and/or		kg					
	200	03	3.256								
	200	04	4.000]							
	200	05	3.000								
	200	06	3.000								
	200	07	2.600								
	То	tal	15.856]							
				3.0 WA	STE	STREAM CHA	ARACTE	RI2	ZATION		
3.1	Radiolo	ogical Ch	aracteristics								
	3.1.1	Mixed	waste type:			High-level		X	Transuranic	Lov	w-level
	3.1.2	Handi	ing (as packaį	e conten	8 W0	uld need to be ha	ndled duri	ng t	reatment):		
		☐ C	ontact-handled	1	X	Remote-handled					
	3.1.3			•		teristics (e.g., moi lation, confidence	-	nfo	rmation on cont	ent,	
						onuclides greater t		•		r	

Sr90, 1,000 Ci/m3 for Y90, 1,000 Ci/m3 for Cs137, and 950 Ci/m3 for Ba137m.

3.2	Physic	al Form											
	3.2.1	Physical form of the waste	:										
		⊠ Solid □] Liquid	Semi-solid	X	Debris							
		Other (Describe in con	nments.)										
	3.2.2	Comments on physical for	m:										
		Waste is from the clean-out relative waste quantity is an of shielding materials.											
1.3	Regulat	ed constituents and wastewa	ter/non-wastewater cat	tegory									
	3.3.1	Wastewater/non-wastewat	er under RCRA										
		Wastewater	Non-wastewate	er 🔲 Unk	mown								
	3.3.2	Pagulated assettenants take			***C== 16 1	1							
	EPA State Numb	•	LDR Sub- Category*	Concentration (Typical or Range)**	HCs, it appi Basis	LDR Treatment Concentration Standard or Technology Code							
	D004	Arsenic	N/A	***	***	Exempt (61 FR 60704)							
	D005	Barium	N/A	***	***	Exempt (61 FR 60704)							
	D006	Cadmium	N/A	***	***	Exempt (61 FR 60704)							
	D007	Chromium	N/A	404	***	Exempt (61 FR 60704)							
	D008	Lead	N/A	***	***	Exempt (61 FR 60704)							
		Subcategory marked N/A if no experies for the wester number (40.6		tely describes this waste	e, or if there are	no defined							
		subcategories for the waste number (40 CFR 268.40). ** If waste is not consistent in concentration, this may not apply. Described in Section 3.3.6.											
		concentration varies and is base			.0.								
	3.3.3	List any waste numbers from eets established LDR tree		ich the waste stream	already								
		List:											
		No LDR treatment requ	nired (e.g. TRUM waste	destined for WIPP, e	exclusion, etc.)							
		None (i.e. all constitues treatment).	nts/waste numbers of thi	s waste stream still re	equire								

	3.3.4	Does this wa	ste stre	am contain PCB	ls?				
		☐ Yes			No		j		Unknown
		If no or unkn	own, sl	cip to Section 3.3	.5.				
		3.3.4.1	Is wa	iste stream subje	ect to TSC	\ regul	ations fo	r P	CBs?
				Yes			No		Unknown
		3.3.4.2	Indic	ate the PCB con	centration	range.			
				< 50 ppm			≥ 50 p _l	pm	Unknown
	3.3.5	What is the	confide	nce level for the	regulated	constit	uents?		
		Low		× 1	Medium				High
	3.3.6	Comments of	n regu	lated constituent	s and wast	ewater	/non-wa	stev	vater category:
		None.							
				4.0 WAS	STE STR	EAM '	TREAT	MF	ENT
4.1	Is this w	vaste stream c	urrenti	y being treated?					
	☐ Ye	S		×	No				
	If yes, p	rovide details:		N/A					
4.2				he appropriate bus, including LD				s for	r treating this waste stream
	☐ No	treatment requ	iired (s	kip to Section 5.0))				
	Tre	eating or plan t	o treat	on site					
	☐ Tre	ating or plan t	o treat	off site					
	ズ Tre	eatment option	s still b	eing assessed					
4.3	Planne	d treatment m	ethod,	facility, extent of	treatment	capac	ity avall:	able	:
	acceptar techniqu	nce criteria at \ ues will likely i	VIPP. include	The extent of the	treatment a ontaminatio	and tecl on, solic	hnologie: dification	s ha	eded to meet the applicable waste s yet to be determined, but the ad repackaging. The treatment
4.4	Treatm	ent schedule i	nforma	ition:					
	Treatme	ent is anticipate	ed to be	performed as ne	cessary to s	support	the resul	lts o	f the M-091 TPA dispute resolution.
4.5	Applica	ible Tri-Party	Agree	ment treatment r	nilestone n	umber	s (includ	ling	permitting):
	Mileste	one Number			Due	Date		,	
	M-091	-01							

1.6	Proposed new Tri-Party Agreement treatment milestones:
	See Section 4.4.
4.7	If treating or planning to treat on site, was or will waste minimization be addressed in developing and/or selecting the treatment method?
	☐ Yes ☐ No ☑ Unknown
	If yes, describe: N/A
1.8	List or describe treatability equivalency petitions, rulemaking petitions, and case-by-case exemptions needed for treatment or already in place.
	TRUM disposed of at WIPP is exempt from the LDR treatment standards.
1.9	Key Assumptions:
	None.
	5.0 WASTE STREAM DISPOSAL
	After treatment, how will the waste stream be disposed of (include locations, milestone numbers, variances required, etc. as applicable):
	TRUM is disposed of at WIPP.

1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1,1	Unit/Plant name:		325 HWTU		Waste Strea	ım:	TRUM-RH			
	Treatal	bilitiy Group Nam	e:	TRUM - RH						
1.2	Applica	able profile numbe	r(s) for this w	aste stream:						
	PNNL-	260-0001-00, PNN	L-270-0001-0	0						
1.3	Waste	stream source info	rmation							
	1.3.1	General descrip		este (e.g., spill clean-u	p waste, discarde	d lab mater	ials,			
		Subject waste wa	as generated fr	rom PNNL laboratory	operations.					
	1.3.2	History of how	and where the	waste was/is generate	ed:					
		Waste is generat	ed from routin	ne laboratory operation	s and hot cell clea	n outs at PN	INL.			
	1.3.3	Source of the re	gulated consti	ituents:						
	Waste stream may consist of different inorganic and organic solids and liquids that are contaminated with inorganic and organic regulated dangerous waste constituents. This waste stream also includes hazardous debris.									
	1.3.4	Source of the in	formation (e. _f	g., analytical data, pro	cess knowledge,	document n	umber, etc.)			
		Wastes are chara	cterized as spe	ecified in PNNL Waste	Stream Profiles.					
	1.3.5	Additional notes	5:							
		N/A								
	2	2.0 WASTE STR	EAM STOR	AGE, INVENTOR	Y, AND GENE	RATION I	NFORMATION			
	(NOTE	: For waste in sate	llite accumula	ation areas and 90-day	accumulation area	s, skip to Se	ection 2.6.)			
2.1	Curren	t storage method								
		Container (pad)	\boxtimes	Container (covered)		Container	(retrievably buried)			
	_ 1	Sank		DST		SST				
		Other (explain):								
	2.1.1	How was the wa	iste managed	prior to storage?						
	The was			ellite Accumulation ar	eas prior to being	transferred	to storage.			
	2,1,2	Timeframe whe	n waste was p	laced to storage?			_			
	2.1.2 Timeframe when waste was placed to storage? The wastes inventoried and currently stored at the 325 HWTU were placed in storage between 4/20/00 and 12/1/02.									

2.2	Storage invent	tory locations:							-	
	Building/Room	n Number			Numbe	r of Containers/	Tanks			
	325/528	· · · · · · · · · · · · · · · · · · ·			1					
	325/SAL				3					
.3	Current stored	l inventory for t	his stres	ım.						
	Total volume (cubic meters):			0.624					
	Date of invento	ory values:		01/10/2	003					
	Comments on v	waste inventory:								
	This represents	the RH TRUM	wastes ci	urrently is	n this st	orage location				
.4	Is storage caps	acity at this loca	tion pote	entially a	n issue	for this waste	stream?			
	☐ Yes		\boxtimes	No						
	If yes, what is t	the total estimate	d storage	e capacity	<i>i</i> ?	1	N/A			
	When is this ca	pacity expected	to be rea	ched?		1	N/A		•	
	Bases and assumptions used:									
	N/A									
.5	Planned storag	ge areas for this	waste:							
	Current 1	Location	X	CWC				DST	·	
	Other A	rea(s) (list):								
	☐ None									
.6	Estimated general	eration projection	on by ca	lendar ye	ear (inc	ludes waste in	satellite	and 90-day	•	
	Year	m³	and/or	k	g					
	2003	3.256								
	2004	3.000								
	2005	3.000								
	2006	3.000								
	2007	2.600			<u>.</u>					
	Total	14.856		<u> </u>	· · · · · ·					
.7	DOE Storage	Compliance Ass	essment	informat	tion:					
	Assessm	ent has been con	npleted.							
	Document Nun	nber					Date			
	A&E-DWR-02				·		05/31/20	02]	

	□ A	ssessment has been	scheduled.	Schedu	iled date:			
	□ 0	ther. Explain:						
2.8	Applical	ble Tri-Party Agree	ment miles	tones r	elated to stors	rge at this location	on:	
		ne Number			Due Date		•	
	M-020-				06/30/1992			
2.0	Transhar							6 4 1-1
2.9		e ever been any no he environment?	n-permittet	ı, unau	tnorizea reies	ise of this waste :	strea	m from this storage
	□ Y	es	\boxtimes	No				
	If yes, su	ımmarize releases aı	nd quantities	s and p	rovide date:			
	N/A							
2.10	Are ther	e any plans to subn	nit requests	for va	riances or oth	er exemptions r	elate	d to storage?
	Y	es	\boxtimes	No				
	If yes, ex	oplain: N/A						
2.11	Charact	erization						
	2.11.1	Is further charact	erization n	eeded a	bout the wast	e prior to accept	ance	e for storage?
		☐ Yes		\boxtimes	No]	Unknown at this time
		Milestone Number				Due Date		
		N/A				N/A]
		If yes or unknown,	comment o	n chars	ecterization for	storage		1
		N/A	Commont	on onuce	0.00112441011 101	storage.		
	2.11.2	Is further charact	erization ne	eeded a	bout the wast	e prior to accept	ance	for treatment?
		☐ Yes		X	No	· • · · · · · · · · · · · · · · · · · ·		Inknown at this time
		_				_	_	
		Milestone Number			·	Due Date		1
		N/A				N/A		
		If yes or unknown,	comment c	n chara	cterization for	treatment.		
		N/A						
	2.11.3	Is further charact	erization ne	eeded a	bout the wast	e prior to accept	ance	for disposal?
		☐ Yes		X	No		ן נ	Inknown at this time
		Milestone Number				Due Date		
		N/A				N/A		

If yes or unknown, comment on characterization for disposal.

N/A

2.12 Other key assumptions related to storage, inventory, and generation information:

PNNL Waste Management requests full chemical and radiological characterization from the laboratory generators prior to receiving the waste into the 325 HWTU. The inventory information is for what is currently in storage in the specified 325 HWTU location(s). This includes current generation and/or M-91 wastes. The projections in section 2.6 of this data sheet include current generation and M-91 volumes.

3.0 WASTE MINIMIZATION

3.1	Has a v	vaste minimizatio	on assessment be	en compl	eted for this st	ream?			
	□ ¹	Yes	\boxtimes	No					
	If yes, p	provide date asses	sment conducted	l:		N/A			
	If yes, p	provide document	number or other	identifica	tion:				
	N/A								
	If no, p	rovide date assess	ment will be con	npleted, or	r if waste stream	n is no longer generated, then indicate N/A:			
	Assessi	nent Date to be de	etermined.						
3.2	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):								
	used in		Radioactive Was			ess reagents or less hazardous reagents can be inely assess the possibility of consolidating			
3.3	Waste minimization schedule								
	3.3.1	Reduction ach	ieved during cal	lendar ye:	er 2002 (volum	e or mass)			
		0.000	m3						
	3.3.2	Projected futu	re waste volume	e reductio	ns				
		Year	m³	and/or	kg				
		2003	0.000						
		2004	0.000]					
		2005	0.000	1					
		2006	0.000]					
		2007	0.000						

3.3.3 Bases and assumptions used in above estimates:

Total

0.000

Projects generating wastes usually have strict requirements for process outcomes. Hence, it is not possible to project specific volume reductions. As noted in Section 3.2, each project generating this type of waste is reviewed to assure that waste volumes generated are minimized.

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1.0 WASTE STREAM IDENTIFICATION AND SOURCE

1.1	Unit/Plant name:		CWC		Waste Stream:	RH TRUM						
	Treatal	bilitiy Group N	ame:	TRUM - RH								
1.2	Applica	able profile nun	nber(s) for this	waste stream:								
	N/A											
1.3	Waste	Waste stream source information										
	1.3.1	General desc maintenance	_	vaste (e.g., spill clean-	up waste, discarded lab m	aterials,						
		absorbents th	at are contamin		g, steel shielding, glass, pap onstituents. The current RH waste.							
	1.3.2 History of how and where the waste was/is generated:											
		The waste was generated from the PFP, PUREX Plant, Critical Mass Laboratory, Materials Engineeri Laboratory, Kerr-McGee, the Chemical Engineering Building, Post-Irradiation Test Facility, REDOX facility, Radiochemistry Building, the Semi-works D&D, Radiological Calibrations Laboratory, and t Fuels Development Laboratory.										
	1.3.3 Source of the regulated constituents: See 1.3.1 and 1.3.2.											
									1.3.4	Source of the information (e.g., analytical data, process knowledge, document number, etc.)		
			Analytical data and process knowledge.									
	1.3.5	Additional n	otes:									
		None.				•						
	:	2.0 WASTE S	TREAM STO	RAGE, INVENTO	RY, AND GENERATIO	ON INFORMATION						
	(NOTE	E: For waste in	satellite accum	alation areas and 90-da	y accumulation areas, skip	to Section 2.6.)						
2.1	Curre	nt storage meth	od									
		Container (pad)	×	Container (covered	l) Conta	iner (retrievably buried)						
		Tank		DST	☐ SST							
		Other (explain):										
	2.1.1	How was the	waste manage	d prior to storage?								
	Accum	ulated and pack	aged at various	locations prior to stors	ige.							
	2.1.2	Timeframe v	when waste wa	s placed to storage?								
	Waste	Waste storage in CWC began in 1988 and continues.										

Storage invento	ry locations.							
Building/Room l	Number		Number	of Containers/Tanks				
CWC			11					
Current stored inventory for this stream.								
Total volume (ca	ubic meters):		56.000					
Date of inventor	y values:		01/06/2003					
Comments on waste inventory:								
Inventory based	on data for con	tainers re	siding at the CW	'C as reported in the SWITS.				
Is storage capacity at this location potentially an issue for this waste stream?								
☐ Yes	,		No					
	e total estimate	_		N/A				
1) yes, while to the rotate continuous ordings and an arrangement of the continuous ordinary								
When is this capacity expected to be reached? N/A								
Bases and assumptions used: No issues with CWC storage based on 20 year waste generation forecast.								
			year waste gene	eration forecast.				
Planned storage	e areas for this	waste:						
Current L	ocation	X	CWC	DST				
Other Are	ea(s) (list):							
None								
Estimated gene	ration projecti	on by cal	endar year (incl	udes waste in satellite and 90-day				
accumulation a	reas):							
	•	and/or	kg					
Year	m ³	and/or						
Year 2003	m ³							
2003	0.000 1.000 0.000							
2003 2004 2005 2006	0.000 1.000 0.000 0.000							
2003 2004 2005 2006 2007	0.000 1.000 0.000 0.000 0.000	antroi						
2003 2004 2005 2006	0.000 1.000 0.000 0.000	ancor						
2003 2004 2005 2006 2007	0.000 1.000 0.000 0.000 0.000 1.000							
2003 2004 2005 2006 2007 Total	0.000 1.000 0.000 0.000 0.000 1.000	sessment :						
2003 2004 2005 2006 2007 Total	0.000 1.000 0.000 0.000 0.000 1.000	sessment :						
2003 2004 2005 2006 2007 Total	0.000 1.000 0.000 0.000 0.000 1.000 Compliance Assent has been con	sessment :		Date				

	stone Number				ue Date		
M-020	-12	······································		10	/31/1991		
	ere ever been any no the environment?	n-permitte	ed, una	uthoriz	ed release of this v	vaste stre	am from this storage
	res es	X	No				
If yes, s	ummarize releases a	nd quantitie	es and p	provide	date:		
N/A							
Are the	re any plans to subi	nit request	s for v	ariance	s or other exempti	ons relat	ed to storage?
	es	X	No				_
If yes, e	xplain: N/A						
Charac	terization						
2.11.1	Is further charact	erization n	eeded	about ti	he waste prior to a	cceptano	e for storage?
	Yes		X	No	•	П	Unknown at this time
			_				
	Milestone Number				Due Date		٦
					N/A		
	If yes or unknown,	comment o	on chai	racteriza	tion for storage.		
	N/A						
2.11.2	Is further charact	eriz a tion n	eeded	about ti	he waste prior to a	cceptano	e for treatment?
	Yes		X	No			Unknown at this time
	349						
	Milestone Number				Due Date N/A		٦
	L					····	
	If yes or unknown,	comment o	on char	acteriza	tion for treatment.		
	N/A						
2.11.3	Is further characte	erization n	eeded :	about th	ie waste prior to a	cceptanc	e for disposal?
	Yes		X	No		□ ¹	Jnknown at this time
	Milestone Number				Due Date		

2.12	Other k	Other key assumptions related to storage, inventory, and generation information:									
	None.										
				3.0 WAS	ΓΕ MINIM	IZATION					
3.1	Has a waste minimization assessment been completed for this stream?										
	۱ 🗆	res es	×	No							
	If yes, p	provide date assess	ment conducted	:		N/A					
	If yes, p	If yes, provide document number or other identification:									
	N/A										
	If no, p	rovide date assessr	nent will be cor	npleted, or	if waste strea	am is no longer generated, then indicate N/A:					
	None p	lanned - waste not	generated at CV	WC.							
3.2	stream volume	Provide details of current and proposed methods for minimizing the generation of this stream (e.g., process changes to reduce or eliminate LDR waste, methods to reduce volume through segregation and avoidance of commingling, substitution of less-toxic materials):									
		These activities occur before the wastes are trasnferred/shipped to CWC. There are few opportunities to reduce waste volumes placed into storage.									
3.3	Waste minimization schedule										
	3.3.1	Reduction achi	ieved during ca	lendar yea	r 2002 (volu	me or mass)					
		0.000	m3								
	3.3.2	Projected futur	Projected future waste volume reductions								
		Year	m ³	and/or	kg						
		2003	0.000] [
		2004	0.000] [
		2005	0.000]]							
		2006	0.000] [.,						
		2007	0.000	<u> </u>							
		Total	0.000] [
	3.3.3	Bases and assu	mptions used i	n above est	imates:						
		None.									

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APPENDIX C

POTENTIAL MIXED WASTE

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APPENDIX C

POTENTIAL MIXED WASTE

The origin and definition of potential mixed waste is discussed in Section 2.3 of this volume. The content of each column is defined here.

Table C-1. Potential Mixed Waste Table Explanation.

Column	Column Title	C-1. Potential Wixed waste Table Explanation. Content Definition
A	Company,	Self-explanatory.
A	project	, berr enplanatory.
В	Common name	Self-explanatory.
-	or description	
С	Facility number	Self-explanatory.
D	Solid waste with potential for mixed waste not integral to the building or structure (no use)	"Stuff" (e.g., equipment, materials) that is not currently in use and for which no future use is currently known, but for which the final disposition has not yet been determined. The "stuff" is not currently considered mixed waste and may or may not currently be contaminated, but includes items with the potential for becoming mixed waste, depending on future decisions regarding the ultimate use and disposition. "Stuff" integral to the building is not to be included. "None" in this column indicates the project/facility contains no "stuff" known to be in this category.
E	Materials with potential to become solid waste and subsequently mixed waste (in standby, possible use)	"Stuff" (e.g., equipment, materials) that is currently in "standby" and may at some point, if it becomes waste, designate as mixed waste. Provide details for standby equipment/material that has a clear use or path for reuse/recycling, but may at some point, if/when it becomes waste, designate as mixed waste. A future use must be documented for material to be included in column E of the Potential Mixed Waste Table. Documentation of the future use of items in column E shall be available upon request. Columns D and E encompass contents of buildings and structures only. Floor sweepings, dust, etc., are not included. The structures themselves, including contaminated walls, floors, etc., are not included. Equipment and chemicals that are in use are not included.
F	DOE assessment of storage methods	Indicate when the DOE assessment for the purpose of meeting LDR report requirements is scheduled. Provide an alternative explanation if required (e.g., the assessment completion date, key facility in surveillance and maintenance phase, further DOE LDR assessment not needed).
G	Schedule information	Include schedule information relative to materials detailed in these columns. Include references to pertinent documents (closure plans, RODs) and identify any applicable operable units or other Tri-Party Agreement drivers for remediation. Provide a date for completing the data gap plan, if applicable. Also, for major negotiations related to the path forward for the potential mixed waste, such as the start of facility transition or deactivation, provide a date for starting the negotiations with the regulators.

Table C-1. Potential Mixed Waste Table Explanation.

Column	Column Title	Content Definition
Н	Integrating factors	Include factors that should be considered when determining when negotiations should occur. These include factors such as relative threat to human health and the environment of no action, ties to other activities such as operable unit remediation, ties of action to facility missions, etc.

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOF accessment of	Schedule information	Integrating factors
Fluor Hanford, Inc., Nuclear Material Stabilization Project	216-Z-9 Crib Soil Removal Glovebox (inactive)	216Z9A	Soil Removal Glovebox. Air compressor (potential for regulated oil). Residual contamination within glovebox (potential for mixed wastes during cleanout). Inactive ventilation exhaust ductwork (potential for residual contamination). Note: Glovebox probably will function as containment when conducting facility cleanout/transition activities.	None	DOE assessment: Completed 3 rd quarter CY 2001	Tri-Party Agreement milestone M-083-41, Complete Transition and Dismantlement of the 216-Z-9 Crib Complex (due date: September 30, 2010) Data gap plan: NA Starting negotiations: NA (completed)	None
Fluor Hanford, Inc., Nuclear Material Stabilization Project	Waste Incinerator Facility (inactive)	232Z	Incinerator and Leaching Gloveboxes. Residual contamination within gloveboxes (potential for mixed waste during cleanout). Inactive portions of ventilation exhaust ductwork and control equipment (potential for residual contamination). Note: Gloveboxes to be maintained and used for containment when conducting facility cleanout/transition activities.	None	DOE assessment: Completed 3 rd quarter CY 2001	Tri-Party Agreement milestone M-083-40, Complete Transition and Dismantlement of the 232-Z Bldg Incinerator (due date: September 30, 2006) Data gap plan: NA Starting negotiations: NA (completed)	None

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOF assessment of	Schedule information	Integrating factors
Fluor Hanford, Inc., Nuclear Material Stabilization Project	Plutonium Finishing Plant			SNM solids.		M-083-44, Complete Transition of the 234-5Z (plutonium conversion facility) and ZA (plutonium conversion support facility), 243-Z Low Level Waste Treatment Facility, 291- Z Exhaust Building, and 291-Z-1 Exhaust Stack to support PFP Decommissioning, due September 30, 2015. Tri-Party Agreement milestone M-083-14, Complete 100% of the Legacy Pu Holdup Removal as Defined in the Legacy Pu Holdup Removal Plan for PFP required by MX-083-12- T01 (due date: September, 2006). Data gap plan: NA Starting negotiations: NA (completed)	None

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOF accessment of	Schedule information	Integrating factors
Fluor Hanford, Inc., Nuclear Material Stabilization Project	Plutonium Reclamation Facility	236Z	Pu nitrate reclamation tanks, piping, and control equipment. Miscellaneous treatment tanks, piping, and control equipment. Containment gloveboxes (reclamation and miscellaneous treatment). Chem. prep tanks, piping, and control equipment. Residual contamination within inactive process equipment and gloveboxes (potential for mixed waste during cleanout). Potential for liquids within inactive tanks, vessels, and piping. Miscellaneous tools and maintenance equipment located within canyon cell. Note: Gloveboxes to be maintained and used for containment when conducting facility cleanout/transition activities.	None	quarter CY 2001	Tri-Party Agreement milestone M-083-43, Complete Transition of the 242-Z Waste Treatment Facility and 236-Z Plutonium Reclamation Facility to Support PFP Decommissioning (due date: September 30, 2013). Data gap plan: NA Starting negotiations: NA (completed)	None

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE	Schedule information	Integrating factors
Fluor Hanford, Inc., Nuclear Material Stabilization Project	MW Treatment and Storage Tanks		Tank D-6, associated piping, line flushing and sludge cleanout. Tank D-6 deactivated in 1972 because of failure. Waste transferred from tank and tank/piping isolated.	None	quarter CY 2001	Tri-Party Agreement milestone M-083-42, Complete Transition and Dismantlement of the 241-Z Waste Treatment Facility (due date: September 30, 2011) M-083-30, Submit 241-Z Waste TSD And Glovebox HA-20mb Closure Plan (due date: July, 2003). M-083-31 Discontinue Waste Discharges From The 241-Z Tanks To Tank Farms (due date: June, 2005). M-083-32 Complete Closure Of The PFP 241-Z TSD Unit (due date: September, 2011) Data gap plan: NA Starting negotiations: NA (completed)	

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)	Materials, with potential to become solid waste and subsequently mixed waste (in standby, possible use)	DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Nuclear Material Stabilization Project	PFP Settling Tanks		Tank containing waste from past practices	None	quarter CY 2006	CERCLA past-practice unit scheduled for cleanup. Schedule is pending outcome of Engineering Evaluation/Cost Analysis. Data gap plan: 1st quarter CY 2007 Starting negotiations: Will be addressed during development of Engineering Evaluation/Cost Analysis.	
Fluor Hanford, Inc., Nuclear Material Stabilization Project	Waste Treatment Facility (inactive)	242Z	Miscellaneous process tanks, first floor and mezzanine level. Process piping. Containment gloveboxes. Potential for liquids within tanks, vessels, and piping. Residual contamination within gloveboxes, tanks, and piping (potential for mixed waste during cleanout).	F	No assessments. Facility is sealed currently because of high levels of radioactive contamination resulting from cation exchange column explosion, August 1976. DOE assessment: NA	Tri-Party Agreement milestone M-083-43, Complete Transition of the 234-Z Waste Treatment Facility and 236-Z Plutonium Reclamation Facility to Support PFP Decommissioning (due date: September 30, 2013). Data gap plan: NA Starting negotiations: NA (completed)	None.

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
	SNM Storage/ Repackaging	2736Z	None	Residues and low-grade SNM solids.	DOE assessment: Completed 3 rd quarter CY 2001	Tri-Party Agreement milestone M-083-00A, Complete PFP Facility Transition and Selected Disposition Activities (due date: September 30, 2016). Data gap plan: NA Starting negotiations: NA (completed)	None
Fluor Hanford, Inc., Central Plateau Project	Area	212R Rail Spur, and PUREX Rail Cut	None	Rail car components (lead casks, liquids within the lead casks, bearings, and lubricants)	DOE assessment: 4 th quarter CY 2005	The equipment reuse/recycling program funding is no longer available. Without future funding, these materials will likely have to be disposed of as solid waste. Discussions with Ecology are planned for CY 2003 to explore disposal options. Data gap plan: 4th quarter CY 2006 Starting negotiations: 2003	None
Fluor Hanford, Inc., Central Plateau Project	Heavy Equipment Staging Area	4734D	None				None

Table C-2. Potential Mixed Waste.

Α	В	С	D	Е	F	G	Н
Company, project	Common name or description	Facility number	Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	200 North Area	212-N, 212-P, 212-R	212-R contains a burial box with some radiologically-contaminated equipment. The 212-N transfer bay contains 14 wooden boxes of suspected TRUM nuclear fuel fabrication equipment from the 308 Building, Room 213, moved in 1982, and a single wooden box from 308 Building, Room 212, transferred in 1983. No non-radioactive contamination has been identified in this facility that would support a MW designation. 212-P used to store PCBs. PMW will be evaluated in the upcoming assessment.	None	DOE assessment: 4 th quarter CY 2005	Data gap plan: 4 th quarter CY 2006 Starting negotiations: TBD	None
Fluor Hanford, Inc., Central Plateau Project	IMUSTs not associated with a building	216-BC-201, 216-BY-201, 216-TY-201, 241-B-361, 241-T-361	Tank system heels in each IMUST	None	DOE assessment: 2 nd quarter CY 2006	Data gap plan: 2 nd quarter CY 2007 Starting negotiations: TBD	The IMUSTs will be dispositioned with their respective cribs. Further information regarding the remediation strategy can be found in DOE/RL-98-28, Rev. 0, 200 Areas Remedial Investigation/ Feasibility Study Implementation Plan - Environmental Restoration Program.

Table C-2. Potential Mixed Waste.

A	В	С	D	Е	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	224-T (Includes TRUSAF)		D1: Potential for liquid in vessels. The presence or absence of mixed waste in the 224-T cells is not documented and the potential for waste was identified in the Silver List D2: There is a glovebox/hood in a plywood enclosure (there may be vessels in the glovebox/hood), but mixed waste is not expected to be found in these items.	None	DOE assessment: Completed 1st quarter CY 2002	D1 and D2: Data gap plan: Completed 4 th quarter CY 2002 Starting negotiations: 2012	The potential for MW presence in the cells is a former Silver List issue that has not been closed out.
Fluor Hanford, Inc., Central Plateau Project	231Z	231Z	Liquid in vessels and chemicals in gloveboxes.	None	DOE assessment: 1st quarter CY 2006		The potential for MW to be present is a former Silver List issue that has not been closed out. Media that might designate as MW, if present, are expected to be contained in stainless steel vessels. It is assumed that the media, if present, are stable and pose no threat to human health or the environment.
Fluor Hanford, Inc., River Corridor Project	242-B/BL	242-B/BL	None			Data gap plan: 1st quarter CY 2008 Starting negotiations: TBD	Plans are being made to evaluate the radiological conditions and disposition as many lead bricks/shielding as possible during 2003.

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project		212-B, 217-B, 221-B, 221-BB,	the hazardous material remaining in the facility. Tank heels relate to TSD tank system and 270-E-1.	S&M Plan, DOE/RL-99-	NA	D & E: As described in the S&M Plan, DOE/RL-99-24, Rev 0. Data gap plan: NA Starting negotiations: Complete. Any additional negotiations will be completed in accordance with the Tri-Party Agreement Action Plan Section 8.6.2.	B Plant is in the S&M phase of the facility decommissioning process, as described in Chapter 8.0 of the Tri-Party Agreement. Final disposition of the IMUST and B Plant will be scheduled such that the activities are performed concurrently. See location-specific data sheets for details regarding waste stored in Cell 4 and in the containment building.
Fluor Hanford, Inc., Central Plateau Project	224-B Building	224-В	Chemicals associated with operations at the 224-B Building may exist as residual deposition in tanks. Potential mixed waste remains in the 224-B process cells.	None	DOE assessment: 4 th quarter CY 2006	Data gap plan: 4 th quarter CY 2007 Starting negotiations: TBD	Facility decommissioning is being planned.

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project		213-A, 214- A/B/C/D, 215-A, 216-A, 225-EC, 271-AB, 276-A, 281-A, 291-A, 291- AB/AC/AD/AE/ AG/AH/AJ/AK., 291-A-1, 292- AA/AB, 293-A, A93-AA, 294-A, 295-A, 295-AA/AB/AC/ AD/AE, 296-A-1, 296-A-2, 296-A-3, 296-A-5A/5B, 296- A-6/7/8/9/10/14/ 24, 2711-A-1. 2712-A, 2714-A/U, 217-A, 252-AC/AB, 216-A-5 (IMUST)	S&M Plan, DOE/RL-98-35, identifies the hazardous material remaining in the facility. Tank heels relate to TSD tank system and 216-A-5.	35, identifies the hazardous material remaining in the facility.	DOE assessment: NA	Plan Section 8.6.2.	PUREX is in the S&M phase of the facility decommissioning process described in Chapter 8.0 of the Tri-Party Agreement. Final disposition of the IMUST at PUREX will be scheduled such that the activities are performed concurrently. See the location-specific data sheet for TSD waste storage at PUREX.
Fluor Hanford, Inc., Central Plateau Project		292-S, 293-S,	the hazardous material remaining in the facility.		NA	accordance with the Tri-	REDOX is in the S&M phase of the facility decommissioning process described in Chapter 8.0 of the Tri-Party Agreement.

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOF accessment of	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project		211-UA, 291-U,	S&M Plan, DOE/RL-98-20, identifies the hazardous material remaining in the facility.			Starting negotiations: Complete. Any additional negotiations will be completed in accordance with the Tri- Party Agreement Action Plan Section 8.6.2.	U Plant is identified in Chapter 8 of the Tri-Party Agreement, as one of the Hanford facilities under S&M. Discussions with the regulators are ongoing to perform CDI at U Plant. Final disposition of the WR vault and U Plant will be scheduled such that the activities are performed concurrently.
Fluor Hanford, Inc., Central Plateau Project			S&M Plan, DOE/RL-98-22, identifies the hazardous material remaining in the facility.	,	DOE assessment: NA	Data gap plan: NA Starting negotiations: Complete. Any additional negotiations will be completed in accordance with the Tri- Party Agreement Action Plan Section 8.6.2.	UO3 is in the S&M phase of the facility decommissioning process described in Chapter 8.0 of the Tri-Party Agreement. The 270-W will be characterized as part of the 200-PW-2 Operable Unit under Tri-Party Agreement Interim Milestone M-015-43B, Submit 200-PW-2 OU RI Report Including the Past Practice Waste Sites in the 200-PW-4 General Process Waste Group due 6/30/2004.

Table C-2. Potential Mixed Waste.

A	В	С	D	Е	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	314		Large equipment previously used in the facility. Equipment might be radioactively contaminated and might also contain items such as asbestos insulation, thermostats, mercury switches, circuit boards, or lead solder that could cause all or parts of the equipment to designate as mixed waste. The extent of contamination on internal components is currently unknown.	None	quarter CY 2003	milestone M-094-00, Complete Disposition of 300 Area Surplus Facilities (due 9/30/2018).	The schedule information in Column G is subject to change in accordance with Section 12.0, Changes to the Agreement, of the Tri-Party Agreement Action Plan.
Fluor Hanford, Inc., Central Plateau Project	327 Building	327	None	for future use as shielding	December 2002	Lead bricks are being stored for future use in decontamination and decommissioning activities. Data gap plan: Included in the assessment report. Starting negotiations:	None
Fluor Hanford, Inc., Central Plateau Project	333 Building	333	Miscellaneous equipment, piping, and ductwork	Miscellaneous equipment, piping, and ductwork. Materials will be evaluated in the future.	DOE assessment: 1st quarter CY 2003	Potential MW disposition will be performed in accordance with Tri-Party Agreement milestone M-094-00, Complete Disposition of 300 Area Surplus Facilities (due 9/30/2018).	The schedule information in Column G is subject to change in accordance with Section 12.0, Changes to the Agreement, of the Tri-Party Agreement Action Plan.

Table C-2. Potential Mixed Waste.

A	В	c	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOF	Schedule information	Integrating factors
Fluor Hanford, Inc., Central Plateau Project	3708	3708	Solid obsolete laboratory equipment	None	2 nd quarter CY 2003	Control Form M-094-01- 01, Milestone M-94-00. Data gap plan: 2 nd quarter CY 2004	information in Column G is subject to change in accordance with Section 12.0, Changes to the Agreement, of the Tri-Party Agreement

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Waste Management Project	T Plant Canyon, RR Tunnel, Head- end			Items having the potential for reuse, including cover blocks, lead shielding (including portable lead	3 rd quarter CY 2005	2001), 13-L and 15-L have been cleaned out (e.g., removal of equipment, debris, etc.) to accommodate K-Basin	December 31, 2002. M-091-022, T Plant Ready to Receive Canister and Fuel Wash Sludge from K

Table C-2. Potential Mixed Waste.

A	В	С	D	Е	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Waste Management Project	T Plant Canyon, Cell 11-L	221-T	Tank in Cell 11-L. The cell 11-L tank contains approximately 500 gallons of a green liquid and saltcake mixture that will be designated as F001-F005, D002, D006, D007, D008, and D010 when removed from the tank.		3 rd quarter CY 2005	the other RCRA-past	Any commitment date will be dependent on the outcome of the Canyon Disposition Initiative.
Fluor Hanford, Inc., Waste Management Project	T Plant Complex IMUSTs	292-TK-1 and 292-TK-2	292-TK-1 and 292-TK-2 consist of two stainless steel 55-gallon drums encased in concrete. These units contained a mixture of irradiated fuel and nitric acid. The solutions in the tanks were then neutralized with molar equivalents of sodium hydroxide.		DOE assessment: 3 rd quarter CY 2005	This WIDS site will be addressed as part of the CERCLA remediation activity. Data gap plan: 3 rd quarter CY 2006 Starting negotiations:	Tanks are part of CERCLA remediation process, scheduled for completion of RI/FS process by Dec. 2008 Prioritization discussions have taken place (4/23/01)

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOF assessment of	Schedule information	Integrating factors
Fluor Hanford, Inc., Waste Management Project	Waste Neutralization Facility (340-Vault Tanks, Decon. Room, Control Room, Records, and Truck Dock)	340	340 Vault tank heels and clean out residues and associated equipment (valves, piping, pumps, light fixtures) may designate as MW.		DOE assessment: 4 th quarter CY 2003	accordance with Tri- Party Agreement milestone M-094-00, Complete Disposition of 300 Area Surplus Facilities (due 9/30/2018).	The schedule information in Column G is subject to change in accordance with Section 12.0, Changes to the Agreement, of the Tri-Party Agreement Action Plan.
Fluor Hanford, Inc., Waste Management Project	340-A Above Ground Storage Tanks	340A	340-A Tanks clean out residues and associated equipment (valves, piping, pumps, light fixtures) may designate as MW.		DOE assessment: 4 th quarter CY 2003	accordance with Tri- Party Agreement Milestone M-094-00, Complete Disposition of 300 Area Surplus Facilities (due 9/30/2018).	The schedule information in Column G is subject to change in accordance with Section 12.0, Changes to the Agreement, of the Tri-Party Agreement Action Plan.

Table C-2. Potential Mixed Waste.

A	В	С	D	Е	F	G	н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOF concessors of	Schedule information	Integrating factors
Fluor Hanford, Inc., Waste Management Project	Waste load-out bldg.		Process piping and ancillary equipment clean out residues may designate as MW.	None	DOE assessment: 4 th quarter CY 2003	Disposition of 300 Area Surplus Facilities (due 9/30/2018) Data gap plan: 4 th quarter CY	The schedule information in Column G is subject to change in accordance with Section 12.0, Changes to the Agreement, of the Tri-Party Agreement Action Plan.
Fluor Hanford, Inc., Waste Management Project	300-RLWS		Isolated radioactive liquid waste sewer piping and ancillary equipment residues may designate as MW.		4 th quarter CY 2003	Potential MW disposition will be performed in accordance with M-016-00, Complete All Interim 300 Area Remedial Actions to Include Confirmatory Sampling of all Candidate Sites in the 200-FF-2 ROD, (due	information in Column G is subject to change in accordance with Section 12.0, Changes to the Agreement, of the

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
Fluor Hanford, Inc., Waste Management Project	242-A Evaporator	242A	None	Ion-exchange column(s)	DOE assessment: Completed 4 th quarter CY 2000	The three ion- exchange columns are scheduled to be removed and disposed during CY03 as part of the 242-A Evaporator Life Extension Upgrades. Data gap plan: Not applicable. Starting negotiations: Not applicable.	
Battelle Memorial Institute, Pacific Northwest	Radiochemical Processing Laboratory		Tank system formerly used for product materials subsequently used as feedstock for research projects. Tanks have been drained and flushed, but remain in place.	gloveboxes used for		Completed 4th quarter	Part of an active facility; no special hazards known.
CH2M HILL, Hanford Group, Inc.,	701-A Ventilation Building	241-A-701	Mechanical equipment, e.g., HEPA filters, exhauster, etc.		DOE Assessment: 4 th quarter CY 2003	Data gap plan: 4th quarter CY 2004 Starting negotiations: TBD	None
CH2M HILL, Hanford Group, Inc., Tank Farms	Double-Shell Tank Farms		Contaminated unusable equipment, e.g., ductwork, exhausters, piping, etc.	None		Data gap plan: The equipment will be handled in accordance with the management procedure. Starting negotiations: NA. Equipment will be taken care of on a continuous basis.	None

Table C-2. Potential Mixed Waste.

A	В	С	D	E	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOF acceptment of	Schedule information	Integrating factors
		BX, BY, C, T,	Contaminated unusable equipment, e.g., ductwork, exhausters, piping, ion exchange columns, etc.	None	Continuing	Data gap plan: The equipment will be handled per the management procedure. Starting negotiations: NA Equipment will be taken care of on a continuous basis.	None
CH2M HILL, Hanford Group, Inc., Tank Farms	Evaporators	242-S, T	Liquids/solids in process tanks and piping, debris		3 rd quarter, CY 2004	242-T and 242-S Evaporators are both forecast to be excessed and will go through the LCAM process. Data gap plan: 3 rd quarter CY 2005 Starting negotiations: FY 2005.	None
Bechtel Hanford, Inc., Environmental Restoration	100-B Reactor Facilities	105-B, 111-B, 116-B, 119-B, 1608-B	Miscellaneous contaminated material remains in the facility.	None	DOE assessment: 2 nd quarter CY 2004. Assessment excludes reactor.		The reactor is a key facility under Section 8.0 of the Tri-Party Agreement.

Table C-2. Potential Mixed Waste.

A	В	С	D	Е	F	G	Н
Company, project	Common name or description		Solid waste, with potential for mixed waste, not integral to the building or structure (no use)		DOE assessment of storage methods	Schedule information	Integrating factors
Bechtel Hanford, Inc., Environmental Restoration	100-N Lead Storage Area	1714-N	None			Data gap plan: 2nd quarter CY 2005 Starting negotiations: Completed as a part of River Corridor negotiations. Tri-Party Agreement Milestone M-093-20, Complete 105-N Reactor Interim Safe Storage, is due 09/30/2012.	
Bechtel Hanford, Inc., Environmental Restoration	Reactor Facilities	183-K, 105-KE,	in the facility is being managed as part of surveillance and maintenance		2 nd quarter CY 2004. Assessment excludes reactor.	activities. Data gap plan: 2 nd quarter CY 2005 Starting negotiations: Completed as a part of	The reactor is a key facility under Section 8.0 of the Tri-Party Agreement. Tri-Party Agreement Milestones M-93-21-T01 and M-93-22-T01 address ISS of 105-KW and 105-KE

Table C-3. Historical List of Materials Deleted from Potential Mixed Waste Table.

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Common Name or Description	Facility Number	Last Calendar Year Reported in Table C-2	"Stuff"/Material Deleted	Reason for Deletion
Heavy Equipment Staging Area	2711E	2002	Miscellaneous equipment	No material left at this location, as it was shipped offsite for reuse.
Rad. Storage Area	3711	2001	Lead bricks	Shipped 9/26/01 to Duratek Inc. in Memphis, TN for decontamination/lead casting
Waste Storage Building	2724WB	2001	Radiators (from motor vehicles)	Shipped 9/26/01 to Duratek, Inc in Memphis, TN for decontamination/metal melt
Plutonium Finishing Plant	234-5Z	2001	E1: Laboratory Reagents E2: Archive Laboratory Samples E3: PR cans that have lead liners. E4: Low-grade SNM solutions not run through the precipitation process, but with potential to become solid waste (e.g. the direct discard process).	E1: These chemicals are in use within the laboratory. E2: Samples are archived in accordance with sample exclusion. E3 and E4: Material is now included on location-specific data sheets. Note: Only the contents noted were removed from Table C-2. Table C-2 still contains other potential waste in this location.
MW Treatment and Storage Tanks	241-Z	2001	Tank D-9, Treatment chemicals	Tank D9 is in use to mix treatment chemicals. Treatment chemicals are in use in transferring waste from the Plutonium Finishing Plant to Double Shell Tanks. Note: Only the contents noted were removed from Table C-2. Table C-2 still contains other potential waste in this location.
Waste Handling Facility	219-S	2001	Tank 103 and heel content	Combined with existing location-specific data sheet for the 219-S WHF.
300-RRLWS	RRLWS	2001	Retired radioactive liquid waste sewer piping and ancillary structures might designate as MW.	Below-ground structure: Does not meet reporting criteria for Potential Mixed Waste Table.
2706-T Conex Box	Conex box CC2W0136 and CC2W137	2001	Various decontamination equipment, spill pallets, shipping coolers, carts, hoses, storage cabinets, and sampling equipment.	These conex boxes were opened and the contents visually verified and photographs taken. The photographs clearly demonstrate that the equipment is readily accessible. The equipment will be used in the future as part of the 2706-T Complex operations (e.g., decontamination, sampling, etc.). The photographs are maintained in the T Plant Complex operating record.
224-T (Includes TRUSAF)	224-T	2002	Liquid in the sumps and the deep cell. Two cardboard boxes in the cells.	Determined to not have a hazardous component, and therefore not a mixed waste. Note: Only the contents noted were removed from Table C-2. Table C-2 still contains other potential waste in this location.
C855 (CAT) Substation	252U	2002	Transformer	The transformer has been designated and found not to have a dangerous component. Therefore, it is not mixed waste.
324	324	2002	Shielded glovebox. Potential mixed waste residue. Former Silver List Item 11.8	Glovebox was included in the 4th quarter CY 2002 LDR storage assessment and determined to contain only floor sweeps.
200 ETF	2025E	2001	Thin film dryer rotor	Rotor was rebuilt for reuse at the 200 ETF.
	I	<u> </u>	<u> </u>	

Table C-3. Historical List of Materials Deleted from Potential Mixed Waste Table.

Common Name or Description	Facility Number	Last Calendar Year Reported in Table C-2	"Stuff"/Material Deleted	Reason for Deletion
100 K Basins	105-KW	2001	Lead bricks, sheets	The lead has been declared CERCLA waste. A location-specific data sheet was created.
Environmental Sciences Laboratory	3720	2002	Laboratory equipment, hoods and gloveboxes used for radioactive materials and waste analysis and research (reused as needed for new or expanded research activities)	Onsite inspection revealed that contaminated equipment is in use. Hoods and gloveboxes listed are part of the structure of the building.
100 C Reactor Facility	105-C, 118-C-4	2001	Reactor core, and equipment remaining in the facility.	Reactor core is part of the structure of the building. Mixed waste is removed during the reactor interim safe storage.
100 D/DR Reactor Facility	105-D, 105-DR, 117-DR, 190-DR	2001	Reactor core, and equipment remaining in the facility.	Reactor core is part of the structure of the building. Mixed waste is removed during the reactor interim safe storage. Waste forecasts are included in the 5-year projections on the location-specific data sheets.
100 F Reactor Facility	105-F	2001	Reactor core, and equipment remaining in the facility.	Reactor core is part of the structure of the building. Mixed waste is removed during the reactor interim safe storage. Waste forecasts are included in the 5-year projections on the location-specific data sheets.
100 H Reactor Facility	105-H, 1720-HA, 1713-H	2001	Reactor core, and equipment remaining in the facility.	Reactor core is part of the structure of the building. Mixed waste is removed during the reactor interim safe storage. Waste forecasts are included in the 5-year projections on the location-specific data sheets.
100-N Reactor Facilities	See Table 1, S&M Plan for the 100-N Deactivated Facilities, DOE/RL-98-64, Rev. 0	2001	Some remaining hazardous materials consisting of activated materials and fission products contained within the reactor block. (Further details are provided in DOE/RL-98-64, Rev. 0, S&M Plan for the 100-N Area Deactivated Facilities)	Reactor core is part of the structure of the building. Mixed waste was removed during the reactor decommissioning.
REDOX	276-S-141/142	2001	Tanks and heel content	A treatability group was developed to account for the 276-S-141/142 tanks. (See Appendix B).
Semi Works	241-CX-70, 241-CX-71, 241-CX-72, 276-C	2001	Tanks and heel content	A treatability group was developed to account for the 241-CX tanks. (See Appendix B).

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ACRONYMS

ATG Allied Technology Group, Inc.

BAT best available technology

best demonstrated available technology **BDAT**

CERCLA Comprehensive Environmental Response, Compensation,

and Liability Act of 1980

critical design document CDD CFR Code of Federal Regulations

contact handled CH

Central Waste Complex CWC

calendar year CY

D&D decontamination and decommissioning

U. S. Department of Energy DOE

U.S. Department of Energy, Office of River Protection DOE-ORP U.S. Department of Energy, Richland Operations Office DOE-RL

DST double-shell tank depleted uranium DU

environmental assessment EA

Ecology Washington State Department of Ecology

environmental impact statement EIS

U. S. Environmental Protection Agency **EPA** Environmental Restoration Disposal Facility **ERDF**

200 Areas Effluent Treatment Facility **ETF**

F&R functions and requirements functional design criteria FDC

Federal Facilities Compliance Act of 1992 **FFCA**

fiscal year FY

GASVIT gasification-vitrification

HLhigh level HLW high-level waste

HSTF Hexone Storage and Treatment Facility Hazardous Waste Treatment Unit HWTU

immobilized high-level waste IHLW immobilized low-activity waste **ILAW**

Idaho National Engineering and Environmental Laboratory **INEEL**

LAW low activity waste LDR land disposal restrictions

Liquid Effluent Retention Facility LERF

Low-Level Burial Grounds LLBG

ACRONYMS (cont)

LLMW low-level mixed waste (same as MLLW)

LLW low-level waste

MLLW mixed low-level waste

MW mixed waste

NA not applicable
NDA nondestructive assay
NDE nondestructive examination

NPL National Priorities List

O/C organic/carbonaceous

OU operable unit

PCB polychlorinated biphenyl

PEIS programmatic environmental impact statement

PFP Plutonium Finishing Plant

pH negative logarithm of the hydrogen-ion concentration

PMP project management plan

PNNL Pacific Northwest National Laboratory
PSTF Purgewater Storage and Treatment Facility

PUREX plutonium-uranium extraction

RCRA Resource Conservation and Recovery Act of 1976

REC radiochemical engineering cell

RH remote handled

RI/FS remedial investigation/feasibility study

RMERC

ROD record of decision
RPP River Protection Project

S&M surveillance and maintenance SALDS State-Approved Land Disposal Site

SCW special-case waste

SEIS supplemental environmental impact statement

SRS Savannah River Site SST single-shell tank

SWIFT Solid Waste Integrated Forecast Technical (Report)

TBD to be determined

Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order

(TPA)

TRU transuranic (waste)
TRUM transuranic mixed (waste)

TSD treatment, storage, and/or disposal TWRS Tank Waste Remediation System

UHC underlying hazardous constituent

UV ultraviolet

DOE/RL-2003-20, Rev. 0 Volume 2, 04/2003

WAC	Washington Administrative Code
WESF	Waste Encapsulation and Storage Facility
WIPP	Waste Isolation Pilot Plant
WMA	Waste Management Area
WRAP	Waste Receiving and Processing Facility
WTP	Waste Treatment Plant

METRIC CONVERSION CHART

Into metric units

Out of metric units

If you know	Multiply by	To get	If you know	Multiply by	To get
Length				Length	
inches	25.40	millimeters	millimeters	0.03937	inches
inches	2.54	centimeters	centimeters	0.393701	inches
feet	0.3048	meters	meters	3.28084	feet
yards	0.9144	meters	meters	1.0936	yards
miles (statute)	1.60934	kilometers	kilometers	0.62137	miles (statute)
	Area			Area	
square inches	6.4516	square	square	0.155	square inches
		centimeters	centimeters		
square feet	0.09290304	square meters	square meters	10.7639	square feet
square yards	0.8361274	square meters	square meters	1.19599	square yards
square miles	2.59	square	square	0.386102	square miles
		kilometers	kilometers		
acres	0.404687	hectares	hectares	2.47104	acres
	Mass (weight)	·		Mass (weight)	
ounces (avoir)	28.34952	grams	grams	0.035274	ounces (avoir)
pounds	0.45359237	kilograms	kilograms	2.204623	pounds (avoir)
tons (short)	0.9071847	tons (metric)	tons (metric)	1.1023	tons (short)
<u> </u>	Volume			Volume	
ounces (U.S., liquid)	29.57353	milliliters	milliliters	0.033814	ounces (U.S., liquid)
quarts (U.S., liquid)	0.9463529	liters	liters	1.0567	quarts (U.S., liquid)
gallons (U.S., liquid)	3.7854	liters	liters	0.26417	gallons (U.S., liquid)
cubic feet	0.02831685	cubic meters	cubic meters	35.3147	cubic feet
cubic yards	0.7645549	cubic meters	cubic meters	1.308	cubic yards
	Temperature			Temperature	
Fahrenheit	subtract 32 then multiply by 5/9ths	Celsius	Celsius	multiply by 9/5ths, then add 32	Fahrenheit
	Energy			Energy	
kilowatt hour	3,412	British thermal unit	British thermal unit	0.000293	kilowatt hour
kilowatt	0.94782	British thermal	British thermal	1.055	kilowatt
unit per second			unit per second	Fores (Decrees)	
	Force/Pressure		1:11	Force/Pressure	T
pounds (force) per square inch	6.894757	kilopascals	kilopascals	0.14504	pounds per square inch

Source: Engineering Unit Conversions, M. R. Lindeburg, PE., Third Ed., 1993, Professional Publications, Inc., Belmont, California.

CALENDAR YEAR 2002 HANFORD SITE MIXED WASTE LAND DISPOSAL RESTRICTIONS STORAGE REPORT VOLUME 2, CHARACTERIZATION AND TREATMENT PLAN

1.0 INTRODUCTION

Volume 2 of the Hanford Site LDR report discusses characterization, treatment and disposal actions, and plans for managing mixed waste on the Hanford Site. Waste characterization and treatment activities on the Hanford Site continue to increase as waste management facilities are completed and funded to process and/or treat the waste. This chapter briefly describes the development process for the treatment plan and identifies other reports that can be consulted for additional information concerning the Hanford Site and expected waste treatment activities. This report has been organized to be similar to the site treatment plans prepared by other U.S. Department of Energy (DOE) sites governed by the Federal Facility Compliance Act (FFCA) of 1992 requirements.

1.1 SITE TREATMENT PLAN ACTIVITIES

The overall information needs and relationships for the report are shown in Figure 1-1. Initial activities include identifying waste streams and available and needed characterization data associated with the streams, and defining the regulatory treatment requirements. The treatment requirements define the treatment categories and technologies needed for each waste type. The physical, chemical, and radiological characteristics of the waste determine the treatability group in which the waste is included. Hanford Site treatment, storage, and/or disposal (TSD) units and available commercial processes for treating the mixed waste also are identified along with their capabilities. Knowing the processes for the treatment capabilities and the treatment requirements for each treatability group, each treatability group can be assigned to either existing treatment capacity or to future processes. For the existing processes, Hanford Site schedules can be determined based on anticipated budgets and overall onsite needs. These schedules confirm the need for operations funding. For the future processes, the waste that requires further characterization determines the types of technology needs and, subsequently, the requirements and capabilities. The future processes will be scheduled and operated as budgets allow.

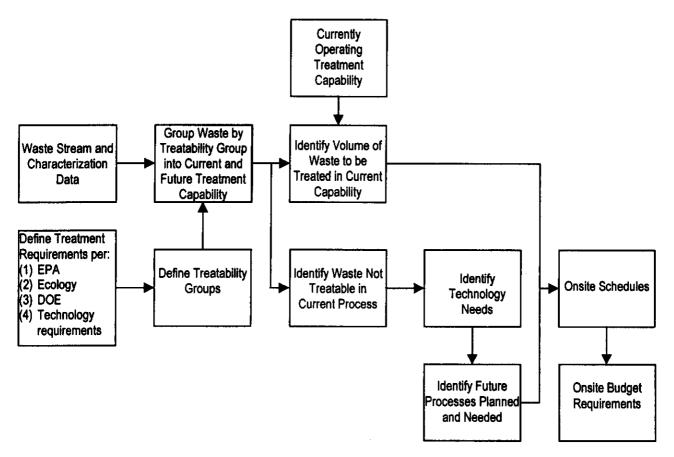


Figure 1-1. Outline of Activities to Complete Treatment Plan.

1.2 RELATIONSHIP TO OTHER MAJOR DOE AND HANFORD SITE ACTIVITIES AND DOCUMENTS

The characterization and treatment plan is influenced by numerous Hanford Site activities. Some of the activities and their resulting reports are identified in the following reports. Additional details can be obtained from the referenced reports. Some of the reports provide additional information on waste stream characterization and evaluation of alternatives, and identify the likely effects of managing the mixed waste on the Hanford Site. These reports include the following:

- Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) (Ecology et al. 2002). This report (Volume 1 and Volume 2) is submitted pursuant to Tri-Party Agreement Milestone M-026-01M. The Tri-Party Agreement also contains many treatment characterization milestones.
- Final Environmental Impact Statement for the Tank Waste Remediation System (DOE/EIS-0189). This environmental impact statement (EIS) and its associated record of decision (ROD) provide details on the alternative treatments for HLW.
- Final Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Wastes (DOE/EIS-0200-F). This EIS and its associated RODs provide the overall evaluation of treatment and disposal alternatives for all the DOE sites.

- Hanford Site Solid (Radioactive and Hazardous) Waste Program Environmental Impact Statement is being prepared. This report is expected to be issued in 2003.
- Solid Waste Integrated Forecast Technical Report (SWIFT). This program provides the waste generation volume forecast.
- Final Hanford Comprehensive Land-Use Plan Environmental Impact Statement (DOE/EIS-0222-F). This EIS and its associated RODs identify areas on the Hanford Site used for managing and disposing of mixed waste.

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2.0 WASTE STREAMS AND TREATABILITY GROUPS

Each waste treatability group is or will be assigned to a specific treatment process. These assignments are based on the treatment and/or characterization requirements of the treatability group and the treatment process capability. For a discussion on the organization of treatability groups, refer to Volume 1 Appendix B. Figure 2-1 summarizes the layout of the treatability groups and identifies where each group is expected to be treated. The upper levels of the chart show the waste type [e.g., mixed low-level waste (MLLW)] and whether or not the treatment capacity exists. The information is presented first for existing processes, then for planned processes, and finally for treatability groups for which further characterization is required to determine the treatment process or for which a treatment technology has not been selected.

Figure 2-1 also indicates the characterization needs for the waste. Waste to be treated under existing processes typically is characterized sufficiently to designate the waste and to ensure that the waste is categorized correctly and safely stored. Any further characterization of this waste that must be done is planned as part of the treatment preparation. Waste to be treated under planned processes and processes not yet defined is characterized sufficiently to know the designation and is safely stored. Because treatment is not planned for waste requiring processes not yet defined, additional characterization might occur as part of the design and development of the proposed treatment units.

The schedule and means for reporting waste characterization data are outlined in Section 9.6 of the Tri-Party Agreement (Ecology et al. 2001). This section states that DOE will make available to Washington State Department of Ecology (Ecology) and the U. S. Environmental Protection Agency (EPA) all relevant electronic data and databases. All validated data are entered into the selected database in accordance with the data delivery schedule in the Tri-Party Agreement, Section 9.6.6.

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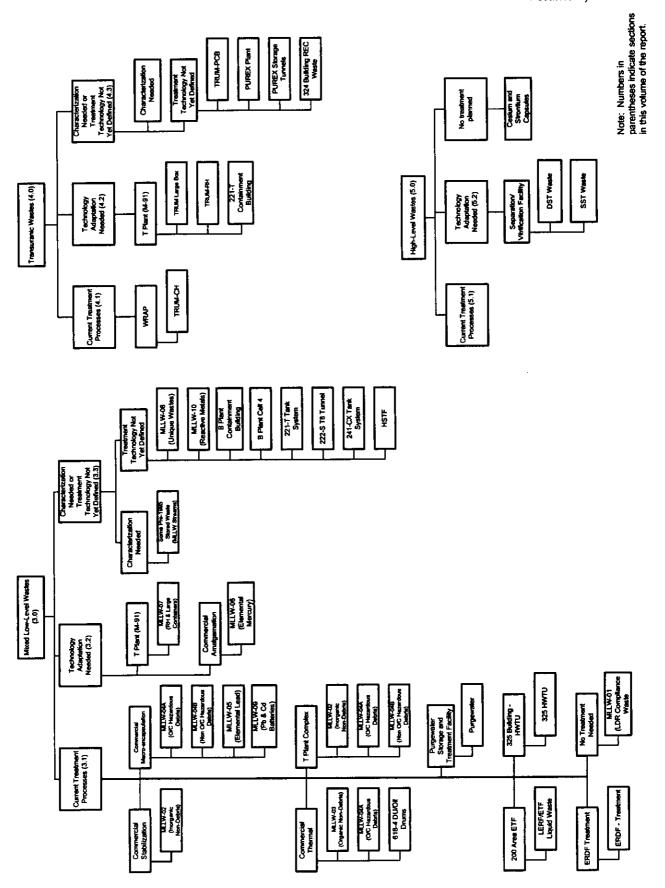


Figure 2-1. Correlation Between Treatability Groups and Treatment Facilities.

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3.0 MIXED LOW-LEVEL WASTE STREAMS

Disposition maps shown in Figures 3-1 and 3-2 present an overview of the planned treatment and disposal of MLLW streams. Figure 3-1 shows the major waste treatability groups and the associated treatment processes (Section 3.1) with existing capabilities. Figure 3-2 shows a flowsheet for the treatability groups contained in the adaptation-needed category (Section 3.2). Because the treatment plan for the remaining MLLW treatability groups is not well developed, a flowsheet for these groups is not included. As noted in Figure 3-1, some treatability groups (MLLW-01, -02, -04A, and -04B) could be treated in more than one location. These treatability groups also are shown in multiple locations in Figure 2-1.

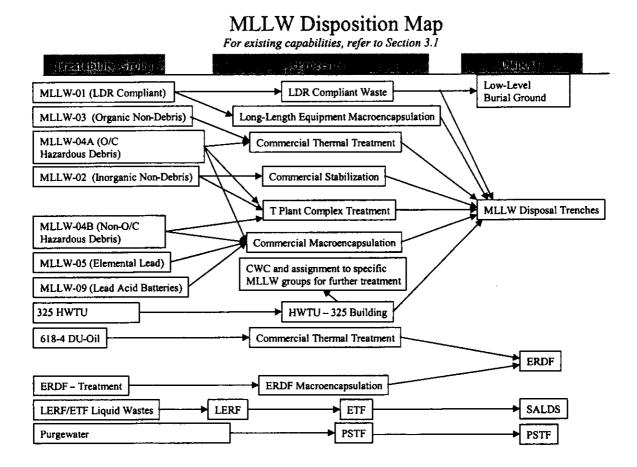


Figure 3-1. Site Disposition Map for Mixed Low-Level Waste.

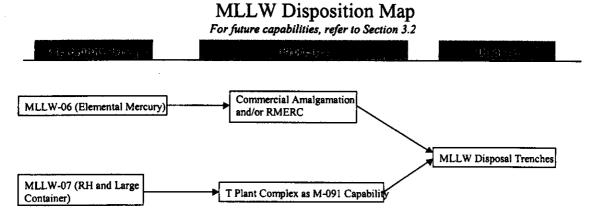


Figure 3-2. Disposition Map for Treatability Groups Needing Facilities Adapted to Allow Waste Treatment.

3.1 MIXED WASTE STREAMS FOR WHICH TREATMENT TECHNOLOGY EXISTS

This section generally describes each treatment process and provides information concerning the processes identified in Figure 3-1. This section also provides information on which waste treatability groups will be treated by each process, including the volume of waste treated during the past year and the anticipated volume of waste to be treated in Calendar Years (CYs) 2003 through 2007.

In reviewing the tables in this section for each treatment process, it becomes apparent that, in many of the tables, the projected volume of MLLW to be treated is related directly to the TPA milestone M-091 dispute resolution. Examples of the waste streams for which an M-091-series milestone might be established to apply are the following: MLLW-01, MLLW-02, MLLW-03, MLLW-04A, MLLW-04B, MLLW-05, MLLW-06, MLLW-07, MLLW-08, MLLW-09, MLLW-10, and 325 HWTU.

The planning baseline indicates that sufficient capacity exists or will exist, to treat this volume of MLLW using the identified treatment process and alternatives: commercial stabilization, commercial thermal treatment, T Plant Complex, Broad Spectrum contracts, etc. However, the exact distribution of treatment among these treatment processes has not been finalized. This allows the Hanford Site to optimize the use of funds (minimize unit costs), to react to changing conditions and capabilities of the treatment processes, and to use emerging national treatment contracts.

Through the use of Broad Spectrum contracts, DOE waste generators have the opportunity to participate in this nationwide privatization initiative for treating and disposing of legacy and currently generated MLLW. The Broad Spectrum contracts have been awarded to Materials and Energy Corporation (Perma-Fix), Waste Control Specialists, and Allied Technology Group, Inc.(ATG). These Broad Spectrum contracts give the Hanford Site several options with unique capabilities for treating a wide range of MLLW streams.

3.1.1 Commercial Stabilization

MLLW that does not have a significant organic content and is not debris waste is expected to be stabilized. This stabilization processing will be conducted in commercial facilities under contract to DOE. Waste currently in storage has been characterized sufficiently for proper designation and storage

on the Hanford Site. Before waste treatment, the existing Treatment Storage and/or Disposal (TSD) record information will be reviewed and corrections will be made as necessary based on existing knowledge.

Stabilization is a treatment technology for non-debris waste that contains heavy metals or other specific hazardous components. Most non-debris waste will be solid, but stabilization could be used to neutralize and solidify some liquid waste. The objective of stabilization is to immobilize the hazardous component through fixation into low-solubility materials, and by encapsulation to reduce the potential for future releases. Usually, stabilization is accomplished by mixing the waste with Portland cement or pozzolanic materials at a preselected ratio, but stabilization also can include mixing with reducing agents or polymer materials. This treatment prepares the waste to meet the disposal requirements. Existing commercial treatment contracts do not cover all the waste types nor all forecast volumes, so additional contracts are expected to be placed with commercial treatment contractors. Table 3-1 contains information on the commercial stabilization process, using ATG as a representative example for regulatory status information.

Table 3-1. Commercial Stabilization Process Summary.

	Information
Type of information	I
Treatability group that the process is expected to treat	MLLW-02, Inorganic Non-Debris.
Tri-Party Agreement milestones related to this treatability group	Discussed as part of M-091 TPA dispute.
Projected volume of MLLW to be treated between CY 2003 and the end of CY 2007	Treatment is anticipated to be performed as necessary to support the results of the M-091 TPA dispute resolution and will include working off the backlog CWC inventory.
Treatment capacity	Sufficient capacity exists to treat this volume of MLLW using the identified treatment processes and alternatives (commercial stabilization, T Plant Complex, Broad Spectrum contracts, etc.)
ATG regulatory status information:	
- Date of RCRA permit	1999.
- Date treatment contract established	1995.
- Date facility construction started	1999.
- Date system testing started	1999.
- Date operations begin	1999.
- Current regulatory status	Permitted, some operations temporarily suspended.
Budget status for continued operations	Funding has been requested in the Fiscal Year (FY) 2003 through FY 2004 budgets and currently is planned to be requested through the FY 2008.
Planned completion of treatment using this process	The baseline plan anticipates that the majority of this treatability group will be processed using commercial facilities. Stored inventories are expected to decrease with anticipated processing rates. Because waste generation is expected to continue through the life of Hanford Site cleanup operations, continued treatment will be needed into the foreseeable future.
Alternative facilities that could be used in	The T Plant Complex and the 325 HWTU also have
place of this facility or to supplement capacity	stabilization capability and could be used to supplement
for this facility.	commercial capacity.

Table 3-1. Commercial Stabilization Process Summary.

Type of inf	formation Information	
ATG	Allied Technology Group, Inc.	
CY	calendar year	
FY	fiscal year	
HWTU	Hazardous Waste Treatment Unit	
MLLW	mixed low-level waste	
RCRA	Resource Conservation and Recovery Act of 1976	
Tri-Party Agreement	Hanford Federal Facility Agreement and Consent Order	

3.1.2 Commercial Macroencapsulation

Macroencapsulation consists of applying a surface coating of polymeric organics or using a jacket of inert inorganic materials (e.g., cement) to substantially reduce surface exposure to potential leaching media. During CY 2002, waste was treated under commercial contracts near the Hanford Site. Existing contracts do not cover all the waste streams, so it is expected that some waste will be treated on the Hanford Site, or that additional commercial contracts will be awarded competitively as needed to meet future needs. The processes potentially available near the Hanford Site are described in an Environmental Assessment (EA) for non-thermal treatment (DOE/EA-1189). For macroencapsulation of hazardous debris under treatability groups MLLW-04A and MLLW-04B, pretreatment processes can include sorting, cutting/shearing, compaction, and supercompaction. For MLLW-05, Elemental Lead, decontaminated lead can be recycled or reused. Lead waste can be encapsulated by a cement jacket according to the definition of MACRO in 40 CFR 268.42. For MLLW-09, Lead-Acid and Cadmium Batteries, EPA recently promulgated a new treatment standard so the MLLW can be treated according to the debris macroencapsulation standards in 40 CFR 268.45. When Ecology adopts this treatment standard, the Hanford Site will be able to treat and dispose of MLLW-09 waste. Table 3-2 contains information concerning the commercial macroencapsulation process, using ATG as a representative example for regulatory status information.

Macroencapsulation currently is being used to treat hazardous debris containing organic/carbonaceous (O/C) constituents that would otherwise require thermal treatment. The Hanford Site has been allowed to treat, and plans to continue to treat, the MLLW-04A O/C Hazardous debris using macroencapsulation in accordance with a site-wide 1,609 kilometers (1,000-mile) inapplicability certification for the Washington State O/C LDR in accordance with WAC 173-303-140(4)(d)(iii).

Other immobilization treatment technologies could be used to treat some of the Hanford Site MLLW debris.

Table 3-2. Commercial Macroencapsulation Process Summary.

Table 3-2. Commercial	Macroencapsulation Process Summary.
Type of information	Information
Treatability groups that the process is	MLLW-04A, Organic/Carbonaceous (O/C) Hazardous
expected to treat	Debris; MLLW-04B, Non-O/C Hazardous Debris;
-	MLLW-05, Elemental Lead; and MLLW-09, Lead-Acid
,	and Cadmium Batteries.
Tri-Party Agreement milestones related to	Discussed as part of the M-091 TPA dispute.
these treatability groups	
Projected volume of MLLW to be treated	Treatment is anticipated to be performed as necessary to
between CY 2003 and the end of CY 2007	support the results of the M-091 TPA dispute resolution
	and will include working off the backlog CWC inventory.
Treatment capacity	Sufficient capacity exists to treat this volume of MLLW
• •	using the identified treatment processes and alternatives
	(commercial stabilization, commercial thermal treatment,
	T Plant Complex, Broad Spectrum contracts, etc.).
ATG regulatory status information:	
- Date of RCRA permit application	1999.
- Date treatment contract established	1995.
- Date facility construction started	1999.
- Date system testing started	1999.
- Date operations begin	1999.
- Current regulatory status	Permitted, some operations temporarily suspended. For
	the treatment and disposal of batteries, DOE is waiting
	for Ecology to adopt the new federal treatment standard
	for batteries.
Budget status for continued operations	Funding has been requested in the FY 2003 through
	FY 2004 budgets and currently is planned to be requested
	through the FY 2008.
Planned completion of treatment using this	The baseline plan anticipates that the majority of these
facility	treatability groups will be processed using commercial
	treatment. Stored inventories are expected to decrease
	with anticipated processing rates. Because waste
	generation is expected to continue through the life of the
	Hanford Site cleanup operations, continued treatment will
	be needed into the foreseeable future.
Alternative facilities that could be used in	The T Plant Complex and the 325 HTWU also have
place of this facility or to supplement	macroencapsulation capability and could be used to
capacity for this facility.	supplement commercial facilities. Other commercial
	facilities also could be used in the future.

ATG Allied Technology Group, Inc.
CY calendar year

CY calendar year FY fiscal year

HTWU Hazardous Waste Treatment Unit

MLLW mixed low-level waste

RCRA Resource Conservation and Recovery Act of 1976
Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order

3.1.3 Thermal Treatment of Organics

MLLW containing organic materials will be treated thermally when sufficient capability has been demonstrated for the Hanford Site waste. The material could be debris waste, other solid waste, or liquid waste. Waste currently in storage has been characterized sufficiently for proper designation and storage on the Hanford Site. Before waste treatment, the existing TSD record information will be reviewed and characterization corrections will be made as necessary based on existing acceptable knowledge. The thermal treatment process destroys organic materials by oxidation, combustion, and/or pyrolysis. For this report, future thermal treatment will be assumed to be in a commercial system. Additional commercial processing contracts will be awarded competitively as needed. The thermal treatment system installed at ATG used the gasification-vitrification (GASVITTM) treatment process. Gasification removes the organic materials and vitrification converts the residual solids into a stable leach-resistant glass-like material suitable for disposal. The process and its potential environmental impacts are described in the EA for ATG operations. Pretreatment processes for the GASVITTM system include sorting and size reduction. The pretreatment process for liquids can include liquid consolidation, liquid treatments (e.g., neutralization), filtration, and ultraviolet (UV) oxidation. The GASVITTM process includes the necessary offgas cleanup systems that can produce small amounts of secondary waste. Table 3-3 contains information concerning commercial thermal treatment, using ATG as a representative example for regulatory status information.

Table 3-3. Commercial Thermal Treatment Process Summary.

Type of information	Information
Treatability groups the process is expected to treat	MLLW-03, Organic Non-Debris.
Tri-Party Agreement milestones related to this treatability group	TPA Interim Milestone M-091-12A, Complete thermal treatment and disposal of 240 m³ of waste by 12/31/2004. M-091-12, Complete thermal treatment and disposal of an additional 360 m³ of waste by 12/31/2005. Additional milestone discussed as part of the M-091 TPA dispute.
Projected volume of MLLW to be treated between CY 2003 and the end of CY 2007	Treatment is anticipated to be performed as necessary to support the results of the M-091 TPA dispute resolution and will include working off the backlog CWC inventory. At least 600 m ³ will be thermal treatment (M-091-12).
Treatment capacity	Treatment capacity is being assessed to thermally treat 600 m ³ of MLLW by 12/31/2005.
ATG regulatory status information:	
- Date of RCRA permit application	1999.
- Date treatment contract established	1995.
- Date facility construction started	1999.
- Date system testing started	2000.
- Date operations began	2001 under pre-demonstration.
- Current regulatory status	Permitted, thermal treatment operations temporarily suspended.
Budget status for continued operations	Funding has been requested in the FY 2003 budget and currently is planned to be requested through the FY 2008. ATG is not expected to process any more thermal waste in FY 2003.

Table 3-3. Commercial Thermal Treatment Process Summary.

Type of information	Information
Planned completion of treatment using this facility	The baseline plan anticipates that the majority of this treatability group will be processed with commercial contracts because other DOE thermal treatment capability is lacking. Stored inventories are expected to decrease with anticipated processing rates. Because waste generation is expected to continue through the life of Hanford Site cleanup operations, continued treatment will be needed into the foreseeable future.
Alternative facilities that could be used in place of this facility or to supplement capacity for this facility.	Other treatment technologies will be available for treating this waste stream, although the technologies are not as far along as the ATG GASVIT TM process. Examples include molten salt oxidation, direct chemical oxidation, and thermal desorption under a Broad Spectrum contract.

ATG Allied Technology Group, Inc.

CY calendar year FY fiscal year

GASVIT gasification-vitrification
MLLW mixed low-level waste

RCRA Resource Conservation and Recovery Act of 1976
Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order

3.1.4 Commercial Thermal Treatment of 618-4 DU/Oil Drums Waste

The preferred treatment alternative for the 618-4 DU/Oil Drums waste involves phase separation of the waste, followed by incineration of the liquids and stabilization of the solids. A drum treatment plan is being prepared that will identify contractors to perform the treatment. The 618-4 DU/Oil Drums treatability group consists of waste from uranium machining. Uranium fines and chips can be pyrophoric and were immersed in oil in drums and disposed in the 618-4 Burial Ground. Table 3-4 provides information with respect to the treatment of this waste stream.

Table 3-4. Commercial Comprehensive Environmental Response, Compensation, and Liability Act
Thermal Treatment Summary.

Type of information	Information
Treatability group that the process is expected to treat	618-4 DU/Oil Drums.
Tri-Party Agreement milestones related to this treatability group	M-016-03I, Complete Treatment of Drummed Waste from the 618-F Burial Ground in Accordance with an Approved Remedial Design Report/Remedial Action
	Work Plan, by TBD.
Projected volume of MLLW to be treated between CY 2003 and the end of CY 2007	120 m ³ .
Treatment capacity	TBD.
Regulatory status information:	
- Date of RCRA permit application	NA.
- Date treatment contract established	NA.
- Date facility construction started	NA.
- Date system testing started	NA.
- Date operations begin	NA.
- Current regulatory status	NA.
Budget status for continued operations	Treatment and disposal of the 618-4 drums are budgeted and scheduled to be performed in FY 2003-2004 in accordance with the Richland Environmental Restoration Project FY 2003-2004 Detailed Work Plan.
Planned completion of treatment using this facility	The baseline plan anticipates that this treatability group will be processed by the end of FY 2004.
Alternative facilities that could be used in place of this facility or to supplement capacity for this facility.	Other treatment technologies have been assessed for this waste stream including in situ vitrification.

FY fiscal year

MLLW mixed low-level waste

NA not applicable

RCRA Resource Conservation and Recovery Act of 1976

TBD to be determined

Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order.

3.1.5 T Plant Complex

The commercial stabilization and macroencapsulation treatment could be supplemented or replaced by capability that exists within the T Plant Complex. While the T Plant Complex canyon is being planned for use in treating RH waste (Section 3.2.1), the T Plant Complex canyon also has been used to open, inspect, segregate, and repackage mixed waste. The 2706-T Building within the T Plant Complex is a decontamination area with the capability to open, sample, sort, treat, and repackage boxes and drums of CH mixed waste. Some of the waste planned to go to commercial treatment facilities will be inspected in the 2706-T Building before being shipped offsite for treatment and some waste will be inspected following treatment. Table 3-5 contains information on the T Plant Complex.

Table 3-5. T Plant Complex Treatment Activities Summary.

	mplex Treatment Activities Summary.
Type of information	Information
Treatability groups that the process is	MLLW-02, Inorganic Non-Debris, and MLLW-04B, and
expected to treat	Non-O/C Hazardous Debris.
Tri-Party Agreement milestones related to	Discussed as part of the M-091 TPA dispute.
these treatability groups	
Projected volume of MLLW to be treated	Treatment is anticipated to be performed as necessary to
between CY 2003 and the end of CY 2006	support the results of the M-091 TPA dispute resolution
	and will include working off the backlog CWC
	inventory.
Treatment capacity	Permitted capacity is 150 metric tons per day.
Regulatory status information:	
- Date of RCRA permit application	T Plant Complex submitted in 2002 to Ecology
- Date treatment contract established	NA.
- Date facility construction started	1943.
- Date system testing started	NA.
- Date operations begin	Mixed waste operations under interim status, Part A,
	Form 3, permit application, began 8/19/87.
- Current regulatory status	Operating under interim status to a current Part A Permit
	Application.
Budget status for continued operations	Funding has been requested in the FY 2003 through
	FY 2004 budgets and currently is planned to be
	requested through the FY 2008.
Planned completion of treatment using this	The baseline plan anticipates that the majority of this
facility	treatability group will be processed using commercial
	treatment; however, significant treatment activities have
	occurred and could occur at T Plant Complex. Stored
	inventories are expected to decrease with anticipated
	processing rates. Because waste generation is expected
	to continue through the life of the Hanford Site cleanup
	operations, continued treatment will be needed into the
	foreseeable future.
Alternative facilities that could be used in	The primary treatment processes are expected to be the
place of this facility or to supplement	commercial treatment facilities described in Sections
capacity for this facility.	3.1.1 and 3.1.2. The 325 HTWU has some permitted
	capability to perform several treatment processes that
	could supplement the treatment planned for T Plant
	Complex.

FY fiscal year

HTWU Hazardous Waste Treatment Unit

MLLW mixed low-level waste

NA not applicable

RCRA Resource Conservation and Recovery Act of 1976
Tri-Party Agreement (TPA) Hanford Federal Facility Agreement and Consent Order

3.1.6 Environmental Restoration Disposal Facility Treatment

Chromium and lead-contaminated waste is treated by grouting or macroencapsulating within the disposal trenches. Specific information on the ERDF treatment activities is included in Table 3-6.

Table 3-6. Environmental Restoration Disposal Facility Treatment Activities Summary.

Type of information	Information
Treatability groups that the process is expected to treat	ERDF - Treatment.
Tri-Party Agreement milestones related to this treatability group	None. Treated as generated in compliance with regulatory timeframe; no compliance agreement required.
Projected volume of MLLW to be treated between CY 2003 and the end of CY 2007	160,000 m ³ .
Treatment capacity	NA.
Regulatory status information:	
- Date of RCRA permit application	NA.
- Date facility construction started	NA.
- Date operations begin	1996.
- Current regulatory status	Facility is operating under a CERCLA ROD issued in 1995, amended in 1997, 1999, and 2002.
Budget status for continued operations	Funding is included as part of the Richland Environmental Restoration Project.
Planned completion of treatment using this facility	2046.
Alternative facilities that could be used in place of this facility or to supplement capacity for this facility.	Commercial macroencapsulation could be used for some waste at significantly increased costs.

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980

CY calendar year

ERDF Environmental Restoration Disposal Facility

FY fiscal year

MLLW mixed low-level waste

RCRA Resource Conservation and Recovery Act of 1976

ROD record of decision

Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order.

3.1.7 200 Area Effluent Treatment Facility and Liquid Effluent Retention Facility

Numerous Hanford Site activities generate low-level aqueous waste. Radioactive effluents are generated primarily in the 200 Areas. The Liquid Effluent Retention Facility (LERF) consists of three RCRA-compliant surface impoundments for storing low-level aqueous waste. The LERF provides segregation of RCRA- and CERCLA-regulated feed and equalization of the flow and pH of the feed to the 200 Area Effluent Treatment Facility (ETF). Each LERF basin has a capacity of 30 million L (7.8 million gal). A truck unloading station allows receipt of liquid effluents from other projects for transfer either to the LERF for storage or directly to the ETF for treatment.

Liquid effluents stored in LERF are treated in ETF to remove toxic metals, radionuclides, and ammonia, and to destroy organics. The ETF treatment process constitutes best available technology (BAT) treatment and includes pH adjustment, filtration, ultraviolet light/peroxide destruction of organics, reverse osmosis, degasification, and ion exchange. Storage tanks allow for hold-up of the treated effluent to verify that the waste has been treated to concentration levels in the permit before discharge. The treated effluent is discharged under a Washington Administrative Code (WAC) 173-216 State Waste Discharge Permit to a state-approved land disposal site (SALDS) north of the 200 West Area after being delisted (40 Code of Federal Regulations [CFR] 261, Appendix IX, Table 2). Table 3-7 contains information on ETF.

The purgewater agreement signed by DOE, Ecology, and the EPA is being renegotiated. Currently, aqueous waste (Purgewater treatability group) from wells is received at the 600 Area Purgewater Storage and Treatment Facility (PSTF) and is treated via solar evaporation. The aqueous waste is from sampling, well maintenance, and well drilling. Under the revised agreement, this waste could be sent to ETF for treatment and disposal. For this report, the 2003 to 2007 purgewater forecast is maintained in the PSTF treatability group. The forecast might be revised to reflect the transfer to the ETF treatability group depending on the outcome of renegotiations.

Table 3-7. 200 Area Effluent Treatment Facility Summary.

Type of information	Information
Treatability Groups that the process is	LERF/ETF Liquid Waste, and possibly Purgewater.
expected to treat	EERI/EII Eiquid Wasie, and possioly I digewater.
Tri-Party Agreement milestones related to	M-026-05J, Submit to EPA and Ecology an Evaluation
this treatability group	of Development Status of Tritium Treatment
uns deataointy group	Technology, 8/31/2003;
	M-26-05L, Submit to EPA and Ecology an Evaluation
	of Development Status of Tritium Treatment
	Technology, 8/31/2005;
	The duration for this milestone has been proposed to go
	from every 2 years to every 5 years; when the Tri-Party
	Agreement Change Request is approved, August 2004
	will be the next submittal.
Projected volume of MLLW to be treated	ETF will process up to 420,000 m ³ of effluent from
between CY 2003 and the end of CY 2007	various generating units. The exact volume of effluent
	processed depends on the actual volumes transferred to
	the LERF/ETF.
Treatment capacity	210,000 m³/yr.
Regulatory status information:	
- Date of RCRA permit	1997 (final status).
- Date facility construction started	1992.
- Date system testing started	1994.
- Date operations begin	1995.
- Current regulatory status	Operating under a final status RCRA permit (except for
	groundwater monitoring).
Budget status for continued operations	Funded for minimum safe operations.
Planned completion of treatment using this	2032.
facility	
Alternative facilities that could be used in	None.
place of this facility or to supplement capacity	
for this facility	
	0.0007045

Note: to convert gallons to cubic meters, multiply by 0.0037845.

CY calendar year

ETF 200 Area Effluent Treatment Facility
LERF Liquid Effluent Retention Facility

MLLW mixed low-level waste

RCRA Resource Conservation and Recovery Act of 1976
Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order

3.1.8 325 Hazardous Waste Treatment Unit

The 325 HWTU is a RCRA permitted TSD unit used to perform tank- and bench-scale treatment of mixed waste and to investigate other treatment technologies. The 325 HWTU is located in the 325 Building in the 300 Area and is intended to treat small volumes of mixed waste to meet CWC waste acceptance criteria for storage. Waste that is not LDR compliant for disposal is sent to CWC to await further treatment. Waste that meets disposal requirements is sent to the Low Level Burial Grounds (LLBG). Table 3-8 contains information on the 325 HTWU.

Table 3-8. HWTU Summary.

Type of information	Information
Treatability groups that the process is	325 HWTU.
expected to treat	
Tri-Party Agreement milestones related to	None.
this treatability group	
Projected volume of MLLW to be treated	Treatment is anticipated to be performed as necessary to
between CY 2003 and the end of CY 2007	support the results of the M-091 TPA dispute resolution.
Treatment capacity	14 m³/day.
Regulatory status information:	
- Date of RCRA permit (final status)	1998 (Part A, Form 3, application 1988).
- Date facility construction started	1952.
- Date system testing started	1991.
- Date operations begin	1991.
- Current regulatory status	Final permit.
Budget status for continued operations	Funding has been included in the current 8-year plan.
Planned completion of treatment using this	2025.
facility	
Alternative facilities that could be used in	Commercial treatment facilities could have capacity to
place of this facility or to supplement	treat some of the waste streams.
capacity for this facility	

CY calendar year

HWTU Hazardous Waste Treatment Unit

MLLW mixed low-level waste

RCRA Resource Conservation and Recovery Act of 1976
Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order.

3.1.9 Waste That Currently Meets Disposal Requirements

Some mixed waste does not require treatment to meet LDR requirements before disposal. The largest volume of this mixed waste is generated by the environmental restoration activities conducted under CERCLA and is transferred directly to ERDF. This waste falls outside the scope of the LDR report, when storage does not occur based on an agreement with Ecology on February 6, 2003. A treatability group that does not require treatment but storage is occurring at the CWC is MLLW-01, LDR Compliant Waste. Most of this waste stream will be disposed of in the LLBG. A fraction of the waste in this LDR Compliant Waste treatability group currently does not meet DOE requirements for disposal, but eventually will be treated to meet these requirements. Waste not meeting disposal requirements is stored. Section 3.5 summarizes the information for the ERDF and LLBG.

3.2 MIXED WASTE STREAMS FOR WHICH TECHNOLOGY EXISTS BUT NEEDS ADAPTATION

As discussed in the following sections, processing is needed for the RH waste currently on the Hanford Site and for the RH waste expected to be generated in the future.

3.2.1 T Plant Complex For M-091 Capability

In a previous evaluation of alternatives (HNF-6287), modifying the T Plant Complex is identified as the lowest cost alternative. The modified portion of the T Plant Complex is known on the Hanford Site as the "M-091 Capability", named for the M-091 Tri-Party Agreement milestone that requires this. The M-091 Capability also is anticipated to provide for processing of the RH TRUM waste and the CH TRUM waste that cannot be accepted into the Waste Receiving and Processing (WRAP) Facility. These waste types are discussed in more detail in the TRUM section. Table 3-9 contains information on the M-91 Capability for MLLW.

Table 3-9. Summary of the M-091 Capability at the T Plant Complex.

Type of information	Information
Treatability groups that the process is	MLLW-07, RH and Large Container.
expected to treat	
Tri-Party Agreement milestones related to	Tri-Party Agreement Target date M-091-14-T01, Award
this treatability group	commercialization contracts for treatment of RH and
	large-size MLLW (10/31/2003); Tri-Party Agreement
	Interim Milestone M-091-15, Complete Acquisition of
	Facilities to Initiate Treatment of RH and Large-
	Container MLLW (6/30/2008).
Technology needed for facility	Technology needs for processing all this waste are
	expected to be complex; it is anticipated that in addition
	to developing existing technology capabilities, further
	technology demonstrations and deployments are required.
Projected volume of MLLW to be treated	Treatment is anticipated to be performed as necessary to
between CY 2003 and the end of CY 2007	support the results of the M-091 TPA dispute resolution.
Treatment capacity	To be determined based on design reports.
Regulatory status information:	
- Design reports	Functional design criteria (FDC), 9/2009; critical design
	document (CDD), 6/2010.
- Submittal of RCRA permit application	Expected to be a modification to T Plant Complex Permit
·	6/2013.
- Date design and construction contract to	6/2012.
be awarded	
- Date facility construction to be started	6/2013.
- Date operations begin	10/2016.
- Current regulatory status	NA.
Budget status for design, construction, and	Included in long-range budgets, but not within the scope
operations	of this report (2003-2007).
Estimated date of completion of treatment	RH waste continues to be produced through the operation
with the assumption of available funding.	and decontamination and decommissioning (D&D) of
	tank farms and vitrification facilities; therefore, treatment
	will continue through at least 2032.
Alternatives for treating this waste.	Several alternatives have been considered over the past
	5 years. The most attractive alternative is construction of
	a new modular treatment facility for these and other
	difficult-to-treat waste groups.
	difficult-to-freat waste groups.

CDD conceptual design document

CY calendar year

D&D decontamination and decommissioning

FDC functional design criteria MLLW mixed low-level waste

NA not applicable

Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order.

3.2.2 Commercial Amalgamation

Elemental mercury waste requires amalgamation as the best demonstrated available technology (BDAT) treatment. Mercury can be present as a small-percentage component in some waste, but also can be present in high concentrations. Mercury present in concentrations >260 mg/kg requires retorting or roasting to recover the metal.

The Hanford Site inventory of mercury-bearing waste is relatively small, as is the case with inventories at other sites across the DOE complex. As part of an effort to increase the efficiency of the treatment and disposal of this waste across the DOE complex, DOE headquarters is leading an effort to assess the magnitude of the need for mercury-bearing waste treatment across the DOE Complex and to develop a national contract for treatment of this waste. In the Hanford Site baseline, the plan is to focus on larger volume waste categories for which treatment capability or contracts exist and await the outcome of this national coordination effort before implementing treatment of mercury-bearing waste.

Several commercial technologies have been reported to be available for some types of mercury waste. (For more information, refer to the Idaho National Engineering and Environmental Laboratory (INEEL) website listed in Chapter 10.0).

Table 3-10. Commercial Amalgamation Summary.

	To Compaction
Type of information	Information
Treatability group that the process is expected to treat	MLLW-06, Elemental Mercury.
Tri-Party Agreement milestones related to this treatability group	Discussed as part of the M-091 TPA dispute.
Technology needed for facility	Commercial amalgamation (also might require RMERC technology).
Projected volume of MLLW to be treated between CY 2003 and the end of CY 2007	Treatment is anticipated to be performed as necessary to support the results of the M-091 TPA dispute resolution.
Treatment capacity	Treatment capacity to support the Hanford Site needs is expected to be <10 m ³ per year. Actual treatment capacity from the national integration effort will be determined later.
Regulatory status information:	
- Design reports	NA.
- Submittal of permit application	NA.
- Date design and construction contract to be awarded	NA.
- Date facility construction begins	NA.
- Date operations begin	2005.
- Current regulatory status	NA.
Budget status for design, construction, and operations	Baseline budgets assume commercial treatment beginning in 2005.
Estimated date of completion of treatment with the assumption of available funding.	Existing inventory estimated to be treated by 2007. Because waste generation is expected to continue through the life of Hanford Site cleanup operations, continued treatment will be needed through the foreseeable future.
Alternatives for treatment of this waste.	Several alternative technologies exist and will be the primary alternatives. A national effort is under way to assess needs and develop a nationwide procurement for mercury amalgamation services. An alternative would be to build the capacity for amalgamation into the M-091 capability.

Table 3-10. Commercial Amalgamation Summary.

Type of information Information

CY calendar year

MLLW mixed low-level waste

MLLW mixed low-level waste NA not applicable

RMERC Specified technology treatment standard defined in 40 CFR 268.42.

Tri-Party Agreement (TPA) Hanford Federal Facility Agreement and Consent Order.

3.3 MIXED WASTE TREATABILITY GROUPS REQUIRING FURTHER CHARACTERIZATION, OR FOR WHICH TECHNOLOGY DOES NOT EXIST OR A TECHNOLOGY ASSESSMENT HAS NOT BEEN DONE

Treatment planning for these waste treatability groups is less complete and continues.

3.3.1 Treatability Groups for which Further Characterization is Needed

Many of the waste groups currently in storage were stored before the current characterization and classification systems were implemented in 1995. The waste acceptance process at that time emphasized safe storage, and the information collected on the waste was to ensure safe storage. Specific information required for treating the waste was not collected. For this waste, the adequacy of the existing characterization information needs to be re-assessed. Therefore, before waste treatment, the existing TSD record information will be reviewed and corrections will be made as necessary based on existing knowledge.

The current baseline assumes that waste requiring additional characterization is characterized in sequence with and near planned treatment and disposal dates. The close coordination of waste characterization schedules with planned treatment and disposal dates has the following benefits.

- Coordination avoids long lag times between characterization and treatment and disposal, minimizing the potential need to recharacterize waste as acceptance, treatment, and disposal criteria evolve.
- Coordination allows for closer matching of characterization efforts with budget constraints.

A dispute under the TPA is being resolved to establish a mixed waste disposal milestone under TPA M-091 that would include many of the waste groups currently in storage. Characterization is anticipated to be performed as necessary to support the results of the M-091 TPA dispute resolution.

3.3.2 Treatability Groups For Which Treatment Technology Has Not Been Selected

Some waste streams in storage have not had technology assessments or selection completed so the streams can be assigned to treatability groups for treatment in existing treatment processes. When the technology assessments for the waste in this category have been completed, many of the waste streams probably can be treated in one of the existing processes. Waste treatability groups for which treatment technologies have not been selected include the following:

- MLLW-08, Unique Waste
- MLLW-10, Reactive Metals
- B Plant Cell 4
- B Plant Containment Building

- 241-CX Tank System
- Hexone Storage and Treatment Facility (HSTF)
- 222-S T8 Tunnel
- 221-T Tank System.

MLLW-10, Reactive Metals (Table 3-11), represents a relatively small volume. As is the case with the inventory of reactive metals waste on the Hanford Site, these waste categories are common with waste categories at other sites across the DOE complex. As part of the effort to increase the efficiency of treatment and disposal of this waste across the DOE complex, DOE headquarters is leading an effort to assess the need for reactive metal treatment and develop a national contract for treating this waste. In the Hanford Site baseline, the plan is to focus on larger volume waste categories for which treatment capabilities or contracts exist and await the outcome of the national coordination effort before treating these smaller waste streams.

Table 3-11. Information for Selected Treatability Groups for Which Treatment Technology Assessments have not been Completed.

Type of information	Information
Treatability groups included in this category	MLLW-08, Unique Waste, MLLW-10, Reactive Metals.
Tri-Party Agreement milestones related to these	Discussed as part of the M-91 TPA dispute.
treatability groups	
Projected volume of MLLW to be treated	Treatment is anticipated to be performed as necessary to
between CY 2003 and the end of CY 2007	support the results of the M-091 TPA dispute resolution.
Technology needed for facility	
Characterization status information	
- Characterization needed defined	NA.
- Characterization milestones	NA.
Treatment status information:	
- Treatability testing	NA.
- Feasibility analysis and reports	NA.
- Bench- and pilot-scale testing reports	NA.
- Research, development, and demonstration	NA.
projects	
- Design reports	NA.
- Permitting milestones	NA.
- Treatment milestones	None.
Budget status for testing, development, design,	Priorities within the next 5-year window are not
construction, and operations	sufficient to begin work on these treatment processes.
Estimated completion date for treatment of	Treatment is anticipated to be performed as necessary to
treatability groups with the assumption of	support the results of the M-091 TPA dispute resolution.
available funding.	

MLLW

mixed low-level waste

NA TBD not applicable to be determined

Tri-Party Agreement

Federal Facility Agreement and Consent Order.

The waste included in the B Plant Cell 4 and B Plant Containment Building treatability groups is stored in a facility managed under a regulator-approved long-term surveillance and maintenance (S&M) plan (DOE/RL-99-24). Therefore, active management of the waste is not planned in the near term. Ongoing S&M activities for these two B Plant Complex treatability groups will be conducted in accordance with

the approved S&M plan and associated Tri-Party Agreement commitments until DOE Headquarters decides to initiate the disposition phase or other actions required under the terms of the *Tri-Party Agreement Action Plan*, Section 8.1 or 8.3.3.

Waste in both the 241-CX Tank System and the HSTF treatability groups will be addressed as part of the remedial action of the 200-IS-1 Operability Unit.

In the resolution negotiations for the Notices of Deficiency the 222-S Laboratory Complex Part B permit application, Ecology agreed that the 222-S T8 Tunnel waste can remain in the 222-S Laboratory Complex until closure. The current schedule reflects initiating cleanout of the 222-S Laboratory Complex in FY 2033 and transition to facility disposition in FY 2035.

Information concerning the 221-T Tank System Waste is included in Table 3-12.

Table 3-12. Information for the 221-T Tank System Waste for Which Treatment Technology

Assessments have not been Completed.

Type of information	Facility Information
Treatability group included in this category	221-T Tank System
Tri-Party Agreement milestones related to this treatability group	Completed.
Technology needed for facility	
Projected volume of MLLW to be treated between CY 2003 and the end of CY 2007	0
Characterization status information	
- Characterization needed defined	Unknown until the treatment capability is defined. This waste might change radioactivity categories from LLMW to TRUM through evaporation.
- Characterization milestones	NA.
Treatment status information:	
- Treatability testing	NA.
- Feasibility analysis and reports	NA.
- Bench- and pilot-scale testing reports	NA.
- Research, development, and demonstration projects	NA.
- Design reports	NA.
- Permitting milestones	Complete (M-20-51).
- Treatment milestones	12/2007 for evaporation of liquid fraction only. Solids proposed to be handled with canyon disposition, in accordance with DOE-RL to Ecology letter #01-RCA-192, dated 3/29/01.
Budget status for testing, development,	Priorities within the next 5-year window are not
design, construction, and operations	sufficient to begin work on this waste group.
Estimated completion date for treatment of	Priorities within the next 5-year window are not
treatability group with the assumption of available funding	sufficient to begin work on this waste group.

DOE-RL U.S. Department of Energy, Richland Operations Office

Ecology Washington State Department of Ecology

MLLW mixed low-level waste

NA not applicable

Tri-Party Agreement Federal Facility Agreement and Consent Order

UHC underlying hazardous constituents

3.4 RADIONUCLIDE SEPARATION PLANS

For MLLW, the only process that involves extensive separations is aqueous waste treatment at ETF, discussed in Section 3.1.8. No separation activities specifically are planned for any other MLLW treatability group.

3.5 MIXED WASTE DISPOSAL

MLLW is disposed of in the LLBG mixed waste trenches, ERDF, and Trench 94 of LLBG for defueled naval reactor compartments. The mixed waste trenches and ERDF are discussed in this section. Trench 94 is not included in the scope of this report. Disposal facilities to be used for the disposal of low activity waste (LAW) from the vitrification of high-level waste (HLW) are discussed in Section 5.6. Plans are being made for a trench to support disposal of mixed waste spent melters from the Waste Treatment Plant.

3.5.1 Low-Level Burial Ground Mixed Waste Trenches

The LLBG mixed waste trenches (218-W-5, Trenches 31 and 34) have been constructed to provide disposal capabilities for a substantial portion of the Hanford Site RCRA mixed waste. Waste for disposal in these trenches must meet the Hanford Site Solid Waste Acceptance Criteria (HNF-EP-0063). Each disposal trench has a capacity of about 24,000 m³ air volume. The LLBG mixed waste trenches are RCRA compliant. In future years, Trenches 31 and 34 are expected to be filled. In addition to the facilities mentioned in Section 3.5, a new RCRA-compliant trench will be constructed. Table 3-13 provides additional information on the mixed waste disposal trenches.

Table 3-13. Summary for Low-Level Burial Grounds Mixed Waste Trenches.

Type of information	Information
Treatability groups going to this disposal unit.	MLLW-01 through 10, and 325 HWTU treatability group waste that meet the waste acceptance requirements.
Tri-Party Agreement milestones related to this disposal unit	M-091-13 – Completed 11/1/1999.
Current combined capacity of the two existing trenches	48,000 m ³ air volume capacity; actual waste volume disposed of will be less.
Regulatory status information	
- Date of RCRA or other permit	Currently operating under interim status, Part B permit application scheduled to be certified following completion of current Notice of Deficiency cycle (possibly 2003).
- Date construction started	1994.
- Date disposal started	September 15, 1999 (storage operations began in 1997).
- Date operations scheduled to end	2035. This date includes future mixed waste trenches.
Budget status for testing, development, design, construction, and operations	Ongoing operations.

Table 3-13. Summary for Low-Level Burial Grounds Mixed Waste Trenches.

Type of information	Information
Expansion plans or alternatives	The Nevada Test Site was an alternative considered in the PEIS*. Expansion will be required to support Hanford Site waste disposal.

^{*} DOE/EIS-0222F, Final Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Mixed Wastes, U.S. Department of Energy, Washington, D.C.

CY

calendar year

MLLW

mixed low level waste

RCRA

Resource Conservation and Recovery Act of 1976

Tri-Party Agreement

Hanford Federal Facility Agreement and Consent Order.

3.5.2 Environmental Restoration Disposal Facility

ERDF is a RCRA-compliant landfill authorized under CERCLA. The landfill is used for disposal of environmental restoration waste generated from cleanup activities. ERDF is designed to receive and dispose of low-level radioactive waste or mixed waste generated through remediation activities on the Hanford Site. The original two cells have been filled since the landfill opened in 1996. Cells 3 and 4 were constructed and are now in use. Table 3-14 summarizes ERDF information.

Table 3-14. Information for Environmental Restoration Disposal Facility.

Type of information	Information
Treatability groups going to this disposal unit.	ERDF - Treatment
Tri-Party Agreement milestones related to this disposal facility	Completed (M-070-00, M-016-92B).
Capacity of current units (Cells 3 and 4)	1,200,000 m ³ .
Estimated volume of capacity to be constructed by 2007 (Cells 5 and 6)	1,200,000 m ³ .
Regulatory status information	Unit is operating under a CERCLA ROD.
- Date of RCRA or other permit	CERCLA ROD issued January 1995, amended in September 1997, and March 1999, and January 2002.
- Date construction started	1995.
- Date disposal started	July 1996.
- Date for end of operations	2046.
Budget status for continued operations	ERDF operations are budgeted as part of the Richland Environmental Restoration Project. ERDF operations and cell construction are included in the project's budget requests.
Expansion plans or alternatives	Additional cells will be constructed as needed.

The volume identified in these rows is the total volume of waste forecast to be disposed of at ERDF. The location-specific data sheets report only the mixed waste fraction of waste disposed of at ERDF. Historically, mixed waste accounts for only 2% of the total waste disposed of at ERDF.

CERCLA

Comprehensive Environmental Response, Compensation, and Liability Act of 1980

ERDF

Environmental Restoration Disposal Facility

ROD

record of decision

Tri-Party Agreement

Hanford Federal Facility Agreement and Consent Order.

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4.0 TRANSURANIC MIXED WASTE STREAMS

On the Hanford Site, all newly generated small container CH TRUM is certified through the Hanford Site TRU Program. Functions in support of certification are conducted predominantly at the WRAP Facility, but some functions are performed at other locations, including T Plant Complex, the analytical laboratories, and the generating facilities. Oversized and RH waste generated near term is stored to await processing via the M-091 capability and certification through the Hanford Site TRU Program. The disposition map in Figure 4-1 shows an overview of the anticipated processing of TRUM treatability groups. This figure shows the major waste treatability groups and the planned process for each group.

It is the position of the DOE that any methods, data, or information contained in the LDR report related solely to the radioactive component of TRU or TRUM is outside the scope of the LDR report, the State of Washington Hazardous Waste Management Act of 1976 or the Resource Conservation and Recovery Act of 1976. It is the position of Ecology that the radioactive component influences safe management of mixed waste and therefore information about this component is necessary to ensure compliance with the Dangerous Waste Regulation, WAC 173-303, and the Resource Conservation and Recovery Act of 1976. Both agencies are currently challenging the other's positions. Consequently, the information provided in this LDR report related to TRU or TRUM is provided for information purposes only to ensure completeness of the LDR report. The DOE is providing the information without agreeing to the Ecology position. Ecology accepts the information without giving up its position. The ongoing litigation regarding TRU waste may result in changes to next years LDR report.

TRUM Waste Disposition Map

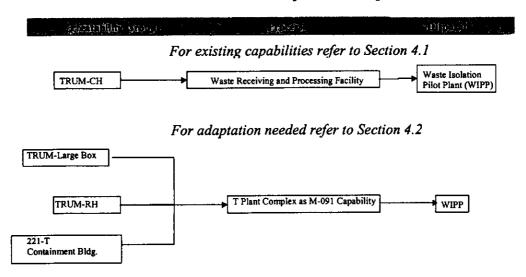


Figure 4-1. Site Disposition Map for TRUM Treatability Groups.

4.1 TRANSURANIC MIXED WASTE STREAMS FOR WHICH PROCESSING TECHNOLOGY EXISTS - WRAP FACILITY

The primary purpose of the WRAP Facility is to certify waste to WIPP waste acceptance criteria for shipment to WIPP. The WRAP Facility provides capabilities to receive waste; confirm contents of drummed and standard waste boxes; repackage, inspect, and certify the waste to WIPP waste acceptance criteria; and provide limited processing of some specific waste types. The WRAP Facility can process

only CH waste in drums or standard waste boxes. Table 4-1 provides information concerning the WRAP Facility. The WRAP Facility Part B permit application (DOE/RL-91-16) contains additional information.

Table 4-1. Information Concerning Processes at the WRAP Facility.

	rable 4-1. Information Conc	Cilling 1 10	· · · · · · · · · · · · · · · · · · ·		
	Type of information		Facility-specific information		
Treatability g	roup that the process is expected to treat	TF	TRUM-CH.		
Tri-Party Agr	eement milestones related to this treatabi	lity M	M-91-02 Completed.		
group					
	ume of TRUM to be processed between	1,0	000 m ³ .		
CY 2003 and	the end of CY 2007				
Treatment car		Pe	rmitted capacity is 13 m ³ /day.		
Regulatory st	atus information:				
	RA permit application		99 and settlement agreement in 2002.		
	ent contract established	N/	A		
- Date facilit	y construction started	Gr	oundbreaking 4/94.		
	n testing started		eceptance test procedures initiated on 2/13/96.		
- Date for co	mmencement of operations		ase I operations [shipping and receiving and NDE/		
		1	DA] initiated 3/12/97		
			ase II operations (Process Area) initiated 9/9/98.		
- Current reg	ulatory status		perating under interim status; transition to final		
			itus is pending.		
Budget status for continued operations			inding has been requested in the FY 2003 and		
			FY 2004 budgets and currently is planned to be		
			quested through the FY 2007 budgets.		
	pletion of treatment using this process		32.		
	rocesses that could be used in place of thi		No other single facility within the DOE complex		
process or to	supplement capacity for this process.		embraces the scope of the capabilities of the WRAP		
			Facility. The complete set of processes is available,		
			ough, at several other DOE locations: INEEL,		
			ocky Flats, Savannah River Site (SRS), and Los		
			amos. In addition, repackaging and		
			aracterization capabilities have been developed		
•			at can be deployed at sites, using temporary rather		
CV	2222		an permanent installation.		
CY DOE	y "	NDA NDE	nondestructive assay nondestructive examination		
INEEL		Tri-Party			
TIALET.	Environmental Laborators	A creement	Hanford Federal Facility Agreement and		

calendar year	NDA	nondestructive assay
U.S. Department of Energy	NDE	nondestructive examination
Idaho National Engineering and	Tri-Party	Hanford Federal Facility Agreement and
Environmental Laboratory	Agreement	Consent Order
Los Alamos National	SRS	Savannah River Site
Laboratory	WRAP	Waste Receiving and Processing Facility
	U.S. Department of Energy Idaho National Engineering and Environmental Laboratory Los Alamos National	U.S. Department of Energy Idaho National Engineering and Environmental Laboratory Los Alamos National NDE Tri-Party Agreement SRS

4.2 TRANSURANIC MIXED WASTE TREATABILITY GROUPS FOR WHICH CHARACTERIZATION AND PROCESSING TECHNOLOGIES NEED ADAPTATION

Current planning includes modifying the T Plant Complex to provide treatment capability to meet the M-091 Milestone requirements. The requirements are to provide for the processing of RH TRUM and oversize containers of TRUM waste. The T Plant Complex (M-091 Capability) also is anticipated to provide for processing of unique TRUM waste streams. The RH waste processing needs to use remote processing methods and technologies. Existing technologies need to be adapted and better technologies developed to improve operational efficiency. The technology information is needed as the process designs are developed. Table 4-2 provides information for the T Plant Complex modification.

Table 4-2. Information for Modifications of T Plant Complex to Meet M-091 Processing Commitments.

Type of information	Information
Treatability group that the process is expected to	TRUM-Large Box; TRUM-RH; 221-T Containment
treat	Building.
Tri-Party Agreement milestones related to these	M-091-01, M-091-05-T01, M-091-06-T01, M-091-
treatability groups pending resolution of TPA	14-T01, M-091-15, M-091-19-T01, M-091-20,
M-091 dispute.	M-091-21-T01, M-091-22.
Technology needed for facility	Remote handling and processing technologies.
Projected volume of TRUM to be processed	Processing not included in baseline funding through
between CY 2003 and the end of CY 2007	2007.
Treatment capacity	To be determined by design reports.
Regulatory status information:	
- Design reports	Conceptual design document (sludge) 6/29/2001
	(completed).
	Functional design criteria (RH and boxes) proposed
	2007.
	Conceptual design report (RH and boxes) proposed
	2008.
- Submittal of permit application	To be determined during design.
- Date design and construction contract to be	2009.
established	
- Date facility construction to be started	2010.
- Date for commencement of operations	2013.
- Current regulatory status	In planning.
Budget status for design, construction, and	Included in long-range budgets, but not within the
operations	2007 window of this report.
Estimated date of processing completion of	2032.
treatability groups with the assumption of	
available funding.	
Alternatives for processing of this waste.	Construction of a new facility or a set of modules.

Note: TRUM waste processing is anticipated to be performed as necessary to support the results of the M-091 TPA dispute resolution.

CY

calendar year

RH

remote handled

Tri-Party

Hanford Federal Facility Agreement and Consent Order

Agreement

TRUM

transuranic mixed

4.3 TRANSURANIC MIXED WASTE TREATABILITY GROUPS WITH PROCESSING TECHNOLOGY NOT SELECTED

This section covers treatability groups that do not have a processing method. Before a processing method can be specified for these media, additional technology assessments need to be performed and/or further characterization might need to occur. Once a processing method is specified and before waste treatment, the existing TSD record information will be reviewed and characterization corrections will be made as necessary based on existing acceptable knowledge. Process planning for the following treatability groups continues:

- PUREX Plant
- PUREX Storage Tunnel
- 324 Building Radiochemical Engineering Cell (REC) Waste
- TRUM-PCB.

The waste associated with these treatability groups needs to be characterized to meet WIPP waste acceptance criteria. RH equipment and techniques are needed to support characterization for most of the waste. Also, for PCB-contaminated waste, thermal treatment might be required to destroy the PCB content.

Waste transfers to certain onsite TSD units are performed in accordance with HNF-EP-0063. This document specifies waste characterization criteria necessary to support proper interim storage and future processing, storage, and/or disposal requirements for TRUM waste. Future Hanford Site waste management requirements related to these streams are currently the subject of the ongoing TPA M-091 dispute.

4.3.1 PUREX Storage Tunnels

The PUREX Storage Tunnels are a RCRA-regulated storage unit and are subject to Hanford Facility RCRA permit conditions. Waste in the PUREX Storage Tunnels treatability group is being stored at a final status miscellaneous unit. Under the Hanford Facility RCRA Permit, closure of the PUREX Storage Tunnels must be coordinated with the final closure plan for the PUREX facility which is under S&M provisions of Section 8.0 of the TPA. Therefore, PUREX Storage Tunnels waste disposition will be coordinated with PUREX Plant waste discussed in Section 4.3.2.

4.3.2 PUREX Plant

Ongoing S&M activities for the PUREX Plant treatability group are conducted in accordance with the approved S&M plan and associated Tri-Party Agreement commitments until DOE Headquarters decides to initiate the disposition phase or actions required by the lead regulatory agency pursuant to the terms of the Tri-Party Agreement Action Plan, Sections 8.1 or 8.3.3. The waste included in the PUREX Plant treatability group is stored under a regulator-approved long-term S&M plan. Therefore, active management of the waste is not planned in the near term.

4.3.3 324 Building Radiochemical Engineering Cell Waste

The 324 Building REC Waste is being dispositioned in accordance with Tri-Party Agreement Milestone M-89-00 due October 31, 2005. Under this milestone, TRUM is removed from the 324 Building and transferred to onsite TSD units.

4.3.4 TRUM-PCB

The preferred alternative is disposal of the PCB-contaminated TRUM waste at WIPP. WIPP is pursuing approval to dispose of TSCA waste with PCB concentrations above 50 ppm. Upon approval of WIPP to accept TSCA waste, this waste will be evaluated for disposal at WIPP. If WIPP disposal is not possible, a specific technology for PCB treatment will be selected during the M-091 scoping activities, which could include chemical treatment (e.g., chemical oxidation, reduction, or dechlorination) or thermal treatment (e.g., molten salt oxidation, vitrification, pyrolysis, steam reforming).

4.4 DISPOSAL OF TRANSURANIC MIXED WASTE

As noted in Figure 4-1, the current plan is to ship certified TRUM waste to WIPP. Waste being disposed of at WIPP must meet WIPP waste acceptance requirements. Waste is shipped to WIPP in appropriate containers and special packages. Table 4-3 provides specific information on the disposal of TRUM waste.

It is the position of the DOE that disposal of TRU or TRUM is outside the scope of the LDR report, the State of Washington Hazardous Waste Management Act of 1976 or the Resource Conservation and Recovery Act of 1976. It is the position of Ecology that disposal information is necessary to assess safety under the state program. Both agencies are currently challenging the other's positions. Consequently, the information provided in this LDR report on TRU waste is provided for information purposes only to ensure completeness of the LDR report. The DOE is providing the information without agreeing to the Ecology position. Ecology accepts the information without giving up its position. The ongoing litigation regarding TRU waste may result in changes to next years LDR report.

Table 4-3. Information for the Disposal of Transuranic Mixed Waste at the Waste Isolation Pilot Plant.

Type of information	Information
Treatability groups going to this disposal facility.	TRUM-RH, TRUM-Large Box, TRUM-CH, and TRUM-PCB. Treatability groups for TRUM waste with processing technologies not selected also will need to be sent to WIPP as waste is qualified.
Tri-Party Agreement milestones related to this disposal facility	None.
Regulatory status information	
- Date of RCRA or other permit	1999.
- Date construction started	NA.
- Date disposal started	1999.
- Date operations end	2034 (based on projected WIPP closure date).
Budget status for testing, development, design, construction, and operations	WIPP budget is not part of Hanford Site budget.
Expansion plans or alternatives	NA.

CH contact handled CY calendar year NA not applicable

PCB polychlorinated biphenyl

RH remote handled

Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order

TRUM transuranic mixed

WIPP Waste Isolation Pilot Plant.

4.5 RADIONUCLIDE SEPARATION PLANS

No plans exist for radionuclide separation as a processing step for TRUM waste because radionuclide separation is not required for these treatability groups to meet WIPP disposal criteria.

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5.0 HIGH-LEVEL WASTE STREAMS

Figure 5-1 shows an overview of the anticipated treatment of HLW treatability groups. The basic process will be for the single-shell tank (SST) System waste to be moved to the double-shell tank (DST) System as space becomes available. The waste will be moved from the DSTs to a waste pretreatment or separation unit where most of the high-activity material will be removed and sent to the high-level vitrification unit. The larger volume of remaining low-activity waste will be sent to a separate low-activity vitrification unit. The vitrification processes will convert the waste into a stable glass-like material for interim storage and eventual disposal. It has been determined per the *Framework Agreement for Management of PCBs in Hanford Tank Waste* (Ecology 2000), dated August 31, 2001, that some DSTs contain PCB remediation waste. The risk-based disposal approval process addresses the disposal of PCB remediation waste through the waste treatment plant (WTP) where PCBs have been addressed as a constituent of concern. Figure 5-1 shows the HLW treatability groups and the planned treatment process.

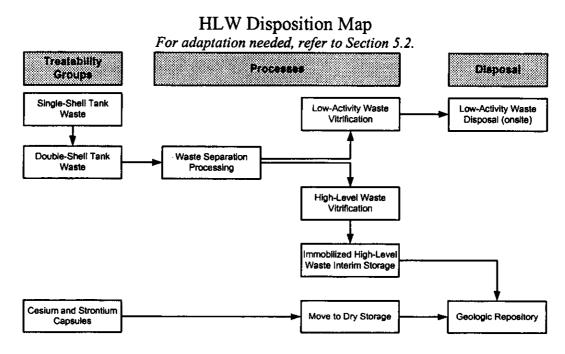


Figure 5-1. High-Level Waste Disposition Map.

5.1 EXISTING TREATMENT PROCESSES

No HLW LDR treatment processes currently are available for treating the Hanford Site waste. The Hanford Site does have HLW evaporators used for many years to concentrate HLW in the tanks and to make tank space available for new or transferred waste. The 242-A Evaporator operation is not LDR treatment; however, operations result in sending a portion of the tank waste (condensate) to LDR treatment at LERF/ETF. The 242-A Evaporator operation is not covered in this LDR report.

5.2 WASTE STREAMS FOR WHICH TREATMENT TECHNOLOGY IS NEEDED

The LDR-specified treatment technology for HLW is vitrification (HLVIT). Planning for vitrification processes for the Hanford Site is ongoing and is a high priority. Details of the contract for completion of

the design and construction of the treatment units for the HLW are available on the Internet¹. Additional details of the planning for HLW management also are available on the Internet¹. Table 5-1 summarizes the key information.

Table 5-1. Information for High-Level Waste Vitrification.

	on for High-Level Waste Vitrification.
Type of information	Information
Treatability groups that the process is expected to treat	DST Waste; SST Waste.
Tri-Party Agreement milestones related to these treatability groups	M-092-00, Acquisition of New Facilities; M-090-00, New Facilities for immobilized high-level waste (IHLW) and immobilized low-activity waste (ILAW); M-062-00, Complete Pretreatment Processing and Vitrification of Hanford High Level (HLW) and Low Activity (LAW) Tank Wastes, M-020-56, Submit Canister Storage Facility Part B Dangerous Waste Permit Application to Ecology, 06/30/2003 and M-020-67, Submit ILAW Disposal Facility Certified Part B Permit Application to Ecology, 06/30/2003.
Technology needed for facility	Vitrification technology has been used at both Savannah River Site and West Valley, but needs some modifications to be applicable to Hanford Site waste.
Projected volume of HLW to be treated between CY 2003 through the end of CY 2007	First processing of HLW is scheduled for 2007.
Treatment capacity	To be determined by final design.
Regulatory status information:	
- Submittal of RCRA permit application	WTP: Final status obtained September 2002. DST System: Revised Part B Permit Application expected 8/2003.
- Date design and construction contract established	2000
- Date facility construction begins	2002.
- Date operations to begin	2007.
- Current regulatory status	DST: Operating under interim status SST: Operating under interim status WTP: Construction under final status
Budget status for design, construction, and operations	Funding is available for FY 2003 to continue design and plans for construction. Funding for FY 2004 and beyond is contingent on Congressional budgets and actions.
Estimated treatment completion date of treatability group with the assumption of available funding.	Complete Pretreatment Processing and Verification of Hanford HLW and LAW Tank Wastes, Tri-Party Agreement Milestone M-62-00 due 12/31/2028.
Alternatives for treatment of this waste.	None
CY calendar year ILAW	immobilized low-activity waste

_	CY	calendar year	ILAW		immobilized low-activity waste
	DST	double-shell tank	SST		single-shell tank
	FY	fiscal year	Tri-Party	Agreement	Hanford Federal Facility Agreement and Consent Order
	HLW	high-level waste	WTP	•	Waste Treatment Plant
	IHLW	immobilized high-level waste			

5.3 RADIONUCLIDE SEPARATION

The tank waste will be sent to the WTP where the waste will be separated into HLW and LAW fractions and treated to meet LDR standards.

¹ Internet addresses are given in the reference list (Chapter 10).

5.4 STORAGE OF HIGH-LEVEL WASTE

Initial canisters of vitrified HLW will be placed in storage in the existing Canister Storage Building, pending final disposal. Additional modules of the Canister Storage Building will be built as needed. The maximum need will be determined at a later date and depends on both the vitrification rate and the ability to ship waste from the Hanford Site to a national repository.

WESF stores the cesium and strontium capsules in pool cells. DOE plans to transfer the capsules from the pool cell to dry storage for shipment to a national repository. Treatment options are still being assessed. Several details of the plan must be worked out with Ecology including how to address the existing TPA milestones relating to the capsules (see the datasheets in Volume 1 Appendix B) and how to address RCRA permitting of the activity.

5.5 SHIPMENT OF HIGH-LEVEL WASTE TO A NATIONAL REPOSITORY

A national repository is expected to be prepared for the HLW and for the spent nuclear fuel accumulating at commercial nuclear power plants. Shipments dates are uncertain at this time, but will become more specific when the site is licensed and the national repository constructed and prepared to receive the HLW. These activities are beyond the scope of this report.

5.6 DISPOSAL OF THE LOW-ACTIVITY WASTE ONSITE

The vitrified LAW will be disposed of onsite in a RCRA subtitle C TSD unit. Start of definitive design cannot proceed until the preferred alternative is selected and the ROD is issued. The current status of the TSD unit is shown in Table 5-2.

Table 5-2. Information for Low-Activity Waste Disposal.

Type of information	Specific Information
Treatability groups going to this disposal facility.	LAW fraction from DST Waste and SST
	Waste treatability groups.
Tri-Party Agreement milestones related to this disposal	M-090-00, New facilities for IHLW and
facility	ILAW; M-020-67, Submit ILAW
	Disposal Facility Certified Part B Permit
	Application to Ecology, 06/30/2003.
Regulatory status information	
- Date of RCRA or other permit	Subject to completion of ROD and Tri-
-	Party Agreement negotiations.
- Date construction started	Subject to completion of ROD and Tri-
	Party Agreement negotiations.
- Date disposal starts	2008 after the start of the WTP.
- Date for end of operations	~2025 (M-60-00) Complete
•	immobilization of ILAW.

Table 5-2. Information for Low-Activity Waste Disposal.

Type of information	Specific Information	
Budget status for testing, development, design,	Budget currently exists to start the SEIS.	
construction, and operations		
Expansion plans or alternatives	Being evaluated for SEIS.	
	Defing evaluated for SE15.	

DST double-shell tank

IHLW immobilized high-level waste ILAW immobilized low-activity waste

RCRA Resource Conservation and Recovery Act of 1976

SST single-shell tank

Tri-Party Agreement Hanford Federal Facility Agreement and Consent Order

WTP Waste Treatment Plant

6.0 TREATMENT OF POTENTIAL MIXED WASTE

Potential mixed waste is identified in Volume 1, Appendix C, of this report. Some of the materials as managed in the future could result in the generation of mixed waste, which would be assigned to an existing or new treatability group. If the material is assigned to an existing treatability group, treatment can be considered along with that of the other location-specific waste streams within that treatability group. Other potential mixed waste will require new or modified treatment processes. Treatment plans for these waste streams will be defined further when the streams are determined to be mixed waste. Other materials will be determined not to be mixed waste and will be handled accordingly.

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7.0 SUMMARY OF CHARACTERIZATION INFORMATION

As part of generation of any waste, a generating unit must take steps necessary to confirm the proper management of this waste. This includes identifying proper radioactive classification, understanding the physical matrix, properly designating the waste, and, where applicable, identifying the appropriate underlying hazardous constituents. Types of information that can be used to characterize waste can include data from analysis of the waste and knowledge of the materials and/or processes used to generate the waste. The information must be sufficient to quantify constituents of regulatory concern and to determine waste characteristics and unit-specific waste acceptance criteria.

This section discusses and summarizes the waste treatability groups and the planned characterization activities for the waste. Waste must be sufficiently characterized so the waste can be stored and managed properly. In addition, waste must be sufficiently characterized before treatment to ensure that the proper treatment processes are applied and that the resultant treated waste meets LDR standards. Table 7-1 summarizes the planned characterization activities for each of the treatability groups. Additional detail can be found on the individual location-specific data sheets (Volume 1, Appendix B). One column of information from Table 7-1 is reproduced in Table 2-2 of Volume 1.

Table 7-1. Summary of Characterization Information for Each Treatability Group.

Treatability Group Name 221-T Containment	Report section	Additional characterization activities Completed.	Planned	Related Tri-Party Agreement milestone Completed
Building 221-T Tank System	3.3.2	Additional characterization might be required to support waste treatment.	Will be done in conjunction with T Plant Complex Canyon disposition.	Completed.
222-S T8 Tunnel	3.3.2	As required to initiate cleanout of 222-S.	2033	None.
241-CX Tank System	3.3.2	Additional characterization will be required to support 200-IS-1 Operable Unit studies.	To be determined through future negotiations.	Proposed Tri-Party Agreement Interim Milestones M-015-48A and -48B.
324 Building REC Waste	4.3.1	No further characterization planned for transfer to CWC. Additional characterization could be required to meet WIPP WAC.	Completed.	M-089-00.
325 HWTU	3.1.9	Characterization performed as generated.	Proposed M-091 ² .	Proposed M-091 ² .
618-4 DU/Oil Drums	3.1.4	Characterization was performed in 1998. No further characterization is necessary.	Completed.	M-016-03I.
B Plant Cell 4	3.3.2	To be determined via Tri- Party Agreement Action Plan, Section 8.0.	To be determined via Tri-Party Agreement Action Plan, Section 8.0.	None. Determined via Section 8.0 of the Tri-Party Agreement Action Plan

Table 7-1. Summary of Characterization Information for Each Treatability Group.

14	010 7-1. 0	summary of Characterization	7	Treatability Group.
Treatability Group Name	Report section	Additional characterization activities	Planned characterization schedule	Related Tri-Party Agreement milestone
B Plant Containment Building	3.3.2	To be determined via Tri- Party Agreement Action Plan, Section 8.0.	To be determined via Tri-Party Agreement Action Plan, Section 8.0.	None. Determined via Section 8.0 of the Tri-Party Agreement Action Plan.
Cesium and Strontium Capsules	5.2	None.	Completed.	None.
DST Waste	5.2	Additional information could be required.	Ongoing.	M-050, M-051, M-061, M-062, M-090.
ERDF – Treatment	3.1.7	Characterized as generated.	Ongoing.	None. Treatment and disposal are performed under CERCLA decision documents.
HSTF	3.3.2	Additional characterization will be required to support 200-IS-1 Operable Unit studies.	To be determined through future negotiations.	Proposed Tri-Party Agreement Milestone M-015-48A and 48B.
LERF/ETF Liquid Waste	3.1.8	Characterization performed as generated.		None.
MLLW-01 – LDR Compliant Waste	3.1.10 and 3.1.6	Characterization performed as generated ¹ .	Proposed M-091 ² .	Proposed M-091 ² .
MLLW-02 - Inorganic Non- Debris	3.1.1	As necessary to meet treatment facility waste acceptance criteria ¹ .	Proposed M-091 ² .	Proposed M-091 ² .
MLLW-03 – Organic Non- Debris	3.1.3	As necessary to meet treatment facility waste acceptance criteria ¹ .	M-091-12, M-091-12A, and Proposed M-091 ² .	M-091-12, M-091-12A, and Proposed M-091 ² .
MLLW-04A – O/C Hazardous Debris	3.1.3	As necessary to meet treatment facility waste acceptance criteria ¹ .	Proposed M-091 ² .	Proposed M-091 ² .
MLLW-04B – Non-O/C Hazardous Debris	3.1.2	As necessary to meet treatment facility waste acceptance criteria ¹ .	Proposed M-091 ² .	Proposed M-091 ² .
MLLW-05 – Elemental Lead	3.1.2	As necessary to meet treatment facility waste acceptance criteria ¹ .	Proposed M-091 ² .	Proposed M-091 ² .
MLLW-06 - Elemental Mercury	3.2.2	As necessary to meet treatment facility waste acceptance criteria.	Proposed M-091 ² .	Proposed M-091 ² .
MLLW-07 - RH and Large Container	3.2.1	As necessary to meet treatment facility waste acceptance criteria .	M-091-10 and Proposed M-091 ² .	M-091-10 and Proposed M- 091 ² .
MLLW-08 – Unique Waste	3.3.2	As necessary to meet treatment facility waste acceptance criteria ¹ .	Proposed M-091 ² .	Proposed M-091 ² .
MLLW-09 – Lead-Acid and Cadmium Batteries	3.3.2	As necessary to meet treatment facility waste acceptance criteria ¹ .	Proposed M091 ² .	Proposed M-091 ² .

Table 7-1. Summary of Characterization Information for Each Treatability Group.

	010 / 11 6	Julibrial y of Characterization	MITOTICE TOT MODE	2200000
Treatability Group Name	Report section	Additional characterization activities	Planned characterization schedule	Related Tri-Party Agreement milestone
MLLW-10 – Reactive Metals	3.3.2	As necessary to meet treatment facility waste acceptance criteria ¹ .	Proposed M-091 ² .	Proposed M-091 ² .
PUREX Plant	4.3.1	To be determined via Tri- Party Agreement Action Plan, Section 8.0	To be determined via Tri-Party Agreement Action Plan, Section 8.0	None. Determined via Section 8.0 of the Tri-Party Agreement Action Plan.
PUREX Storage Tunnels	4.3.1	To be determined via Tri- Party Agreement Action Plan, Section 8.0.	To be determined via Tri-Party Agreement Action Plan, Section 8.0.	None. Determined via Section 8.0 of the Tri-Party Agreement Action Plan
Purgewater	3.1.8	Characterization performed as generated.	Ongoing.	None. Addressed in Appendix F of the Tri-Party Agreement (WHC-MR-0039).
SST Waste	5.2	Further information may be required.	Ongoing.	M-045, M-050, M-051, M-061, M-062, M-090.
TRUM-CH	4.1	As necessary to meet WIPP waste acceptance criteria.	Proposed M-091 ² .	Proposed M-091 ² .
TRUM- Large Box	4.2	As necessary to meet WIPP waste acceptance criteria.	Proposed M-091 ² .	Proposed M-091 ² .
TRUM-PCB	4.3	As necessary to meet WIPP waste acceptance criteria	Before WIPP closure (~2034).	None.
TRUM-RH	4.2	As necessary to meet WIPP waste acceptance criteria.	Proposed M-091 ² .	Proposed M-091 ² .

Newly generated waste in these categories is fully characterized as generated. For waste in inventory before 1995, existing TSD record information will be reviewed and characterization corrections will be made as necessary based on existing acceptable knowledge.

existing acceptable knowledge.

² Characterization is anticipated to be performed as necessary to support the results of the M-091 TPA dispute resolution.

CH	contact handled	RH	remote handled
DST	double-shell tank	SST	single-shell tank
ERDF	Environmental Restoration Disposal Facility	WESF	Waste Encapsulation and Storage Facility
LDR	land disposal restrictions	WIPP	Waste Isolation Pilot Plant
O/C	organic/carbonaceous	WRAP	Waste Receiving and Processing Facility
PCB	polychlorinated biphenyl		
PUREX	plutonium-uranium extraction (facility or process)	

8.0 SUMMARY OF TREATMENT AND DISPOSAL INFORMATION

This section summarizes the waste treatability groups and the volume of waste that will be treated for eventual disposal. Table 8-1 contains information on treatment and Table 8-2 contains the information on disposal. The treatability groups are in alphabetical order. Certain information from Tables 8-1 and 8-2 is reproduced in Table 2-2 of Volume 1.

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Table 8-1. Summary of Treatment Information for Each Treatability Group.

		Table 6-1. Dulli	illary of Tice	tinent anionna		Treatability Oroup.	,
Treatability Group Name	Report section	Treatment process	Volume currently stored (m³) ¹	Projected generation volume 2003 through 2007 (m³)¹	Projected volume to be treated 2003 through 2007 (m³)¹	Planned treatment period	Tri-Party Agreement milestone
221-T Containment Building	4.2	M-091 TRUM.	50	0		2025	None.
221-T Tank System	3.3.2	Not yet determined.	52	0	0	2025	None. T Plant Complex Closure Plan (DOE/RL-95-36).
222-S T8 Tunnel	3.3.2	Not yet determined.	0.2	0	0	2033	None. 222-S Closure Plan (DOE/RL-91-27).
241-CX Tank System	3.3.2	Not yet determined.	3.0	0	0	To be determined through future negotiations.	To be determined through future negotiations.
324 Building REC Waste	4.3.1	Not yet determined.	5.0	10	0	Before WIPP Closure (~2034).	M-089-00.
325HWTU	3.1.9	HWTU, Commercial - Thermal.	8.0	79	Proposed M-091 ²	Through 2025	None.
618-4 DU/Oil Drums	3.1.4	Commercial- thermal.	120	0	120	TBD under M-16-03I.	M-016-03I.
B Plant Cell 4	3.3.2	Not yet determined.	1.4	0	0	In accordance with Tri- Party Agreement Action Plan, Section 8.0	None. Determined via Section 8.0 of the Tri-Party Agreement Action Plan
B Plant Containment Building	3.3.2	Not yet determined.	290,000 kilograms	0	0	In accordance with Tri- Party Agreement Action Plan, Section 8.0	None. Determined via Section 8.0 of the Tri-Party Agreement Action Plan
Cesium and Strontium Capsules	5.2	Vitrification.	2.0	0	0	Treatment options are still being assessed.	M-092-05. Expected to be revisited in CY2003.
DST Waste	5.2	WTP.	88,000	72,000	0	2008-2028 per M-050.	M-050, M-051, M-061, M-062, and M-090.
ERDF - Treatment	3.1.7	ERDF treatment.	140	160,000	160,000	Through 2046.	Treatment and disposal are performed under a CERCLA decision document.
HSTF	3.3.2	Not yet determined.	2.1	0	0	To be determined through future negotiations.	To be determined through future negotiations.
LERF/ETF Liquid Waste	3.1.8	ETF.	29,000	420,000	420,000	Through 2032.	M-026-05 H, J, & L.

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		1	, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	Projected	Projected	Treatability Group.	T
			Volume	generation	volume to be		
Freatability Group Name	Report	Treatment process	currently	volume 2003	treated 2003	Planned treatment period	Tri-Party Agreement
1100mmily Group Italie	section	110mmion process	stored (m ³) ¹	through 2007	through 2007	I minot trouble portou	milestone
			0.0.00 ()	$(m^3)^1$	$(m^3)^1$		
MLLW-01 – LDR-		No treatment	1,400	64	No treatment	NA	Proposed M-091 ² .
Compliant Waste	3.1.6	required.			required.		
MLLW-02 – Inorganic	3.1.1	Commercial-	2,700	100	Proposed	Through 2046 ³	Proposed M-091 ² .
Non-Debris		Stabilization.			M-091 ²		<u> </u>
MLLW-03 - Organic	3.1.3	Commercial-	840	190	Proposed	Through 2046 ³	M-091-12a, M-091-12, and
Non-Debris		Thermal.			M-091 ²		proposed M-091 ² .
MLLW-04A - O/C	3.1.3	Commercial-	1,400	820	Proposed	Through 2046 ³	Proposed M-091 ² .
Hazardous Debris		Thermal.			M-091 ²	-	
MLLW-04B - Non-O/C	3.1.2	Commercial-Macro.	140	370	Proposed	Through 2046 ³	Proposed M-091 ² .
Hazardous Debris					M-091 ²		
MLLW-05 - Elemental	3.1.2	Commercial-Macro.	430	82	Proposed	Through 2046 ³	Proposed M-091 ² .
Lead					M-091 ²		
MLLW-06 – Elemental	3.2.2	Commercial	13	7.4	Proposed	Through 2046 ³	Proposed M-091 ² .
Mercury		Amalgamation.			M-091 ²		
MLLW-07 – RH and	3.2.1	M-091 MLLW.	81	1,400	Proposed	Through 2046 ³	Proposed M-091 ² .
Large Container					M-091 ²		
MLLW-08 - Unique	3.3.2	Not yet determined.	20	0	Proposed	Through 2046 ³	Proposed M-091 ² .
Waste					M-091 ²		
MLLW-09 - Lead- Acid	3.3.2	Not yet determined.	8.4	6.4	Proposed	Through 2046 ³	Proposed M-091 ² .
and Cadmium Batteries					M-091 ²		
MLLW-10 – Lead Acid	3.3.2	Not yet determined.	18	1.5	Proposed	Through 2046 ³	Proposed M-091 ² .
and Cadmium Batteries					M-091 ²		
PUREX Plant	4.3.2	Not yet determined.	1.0	0	0	In accordance with Tri-	None. Determined via
						Party Agreement Action	Section 8.0 of the Tri-Party
						Plan, Section 8.0	Agreement Action Plan
PUREX Storage Tunnels	4.3.1	Not yet determined.	2,800	0	0	Coordinated with PUREX	None.
						Plant waste.	
Purgewater	3.1.8	Solar evaporation at PSTF.	3,700	13,000	13,000	Ongoing.	None.
SST Waste	5.2	WTP.	120,000	0	0	2008-2028 per M-050.	M-050, M-051, M-061, M-062, and M-090.
TRUM-CH	4.1	WRAP Facility.	400	1,000	1,000	Before WIPP closure (~2034).	None.

Table 8-1. Summary of Treatment Information for Each Treatability Group.

Treatability Group Name	Report section	Treatment process	Volume currently stored (m³)¹	Projected generation volume 2003 through 2007 (m³) ¹	Projected volume to be treated 2003 through 2007 (m³) ¹	Planned treatment period	Tri-Party Agreement milestone
TRUM-Large Box	4.2	M-091 TRUM.	72	0	0	Proposed M-091 ² .	None.
TRUM-PCB	4.3	Not yet determined.	110	5.0		To be determined by WIPP.	None.
TRUM-RH	4.2	M-091 TRUM.	57	16		Before WIPP Closure (~2034).	None.

DST	double-shell tank	SST	single-shell tank
ERDF	Environmental Restoration Disposal Facility	WESF	Waste Encapsulation and Storage Facility
NDA	nondestructive assay	WRAP	Waste Receiving and Processing Facility
PCB	polychlorinated biphenyls	WTP	Waste Treatment Plant
PUREX	plutonium-uranium extraction (facility or process)		

Volume numbers in this table have been rounded to two significant figures.

Treatment is anticipated to be performed as necessary to support the results of the M-091 TPA dispute resolution.

32046 is taken as the end of waste processing activities onsite.

	. Summary of Disposal Information for	
Treatability Group Name	Disposal location	Planned disposal period
221-T Containment Building	Not yet determined	To be determined by Canyon Disposition Initiative
		and/or T Plant Complex closure.
221-T Tank System	Not yet determined	Liquid fraction 2007/2008.
		Solid fraction to be determined by Canyon Disposition
		Initiative and/or T Plant Complex closure.
222-S T8 Tunnel	Mixed waste trenches.	2035
241-CX Tank System	Not yet determined.	To be determined through future negotiations.
324 Building Radiochemical Engineering Cell	WIPP.	Before WIPP closure (~2035).
Waste		
325 HWTU	Mixed waste trenches.	Through 2025
618-4 DU/Oil Drums	ERDF.	TBD under
		M-16-03I.
B Plant Cell 4	Not yet determined.	To be determined by Tri-Party Agreement Section 8.0.
B Plant Containment Building	Not yet determined.	To be determined by Tri-Party Agreement Section 8.0.
Cesium and Strontium Capsules	HLW Repository.	2028 per M-050.
DST Waste	HLW repository and onsite vaults.	2028 per M-050.
ERDF - Treatment	ERDF.	Through 2046.
HSTF	Not yet determined.	To be determined through future negotiations.
LERF/ETF Liquid Waste	SALDS.	Through 2032
MLLW-01 – LDR-Compliant Waste	Mixed waste trenches.	Through 2046
MLLW-02 - Inorganic Non-Debris	Mixed waste trenches.	Through 2046 ¹
MLLW-03 - Organic Non-Debris	Mixed waste trenches.	Through 2046 ¹
MLLW-04A - O/C Hazardous Debris	Mixed waste trenches.	Through 2046 ¹
MLLW-04B – Non-O/C Hazardous Debris	Mixed waste trenches.	Through 2046 ¹
MLLW-05 - Elemental Lead	Mixed waste trenches.	Through 2046 ¹
MLLW-06 - Elemental Mercury	Mixed waste trenches.	Through 2046 ¹
MLLW-07 - RH and Large Container	Mixed waste trenches.	Through 2046 ¹
MLLW-08 – Unique Waste	Mixed waste trenches.	Through 2046 ¹
MLLW-09 - Lead Acid and Cadmium Batteries	Mixed waste trenches.	Through 2046 ¹
MLLW-10 - Reactive Metals	Mixed waste trenches.	Through 2046 ¹
PUREX Plant	Not yet determined.	To be determined by Tri-Party Agreement Section 8.0.
PUREX Storage Tunnels	Not yet determined.	Coordinate with PUREX Containment Bldg. Waste.

Table 8-2. Summary of Disposal Information for Each Treatability Group.

Treatability Group Name	Disposal location	Planned disposal period
Purgewater	ERDF.	Will be determined as part of the remaining revisions being made to WHC-MR-0039.
SST Waste	HLW repository and onsite vaults.	2028 per M-050.
TRUM-CH	WIPP.	Through WIPP closure (~2035).
TRUM-Large Box	WIPP.	Through WIPP closure (~2035).
TRUM-PCB	WIPP.	Through WIPP closure (~2035).
TRUM-RH	WIPP.	Through WIPP closure (~2035).

12046 is taken as the end of waste processing activities onsite.

DST	double-shell tank	SST	single-shell tank

ERDF	Environmental Restoration Disposal Facility	WESF	Waste Encapsulation and Storage Facility
PCB	polychlorinated biphenyl	WRAP	Waste Receiving and Processing Facility

PUREX plutonium-uranium extraction (Facility)

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9.0 TRI-PARTY AGREEMENT INFORMATION

The Tri-Party Agreement is a legal document covering Hanford Site environmental compliance and cleanup activities. The Tri-Party Agreement Action Plan implements the agreements among Ecology, DOE (both the DOE-RL and the DOE- U.S. Department of Energy, Office of River Protection [ORP]), and the EPA.

9.1 DOCUMENTATION AND RECORDS

The Tri Party Agreement Action Plan, Section 9.0, "Documentation and Records", defines the documents to be generated under the Action Plan, the classification and listing of primary and secondary documents, and the record systems to be implemented to preserve and access the documentation. The Action Plan, Section 12, "Changes to the Agreement", establishes a process for the parties to propose and implement changes to elements of the Agreement, the Action Plan, and Appendices, and supporting plans (specifically, the annual update of the LDR report).

9.2 LAND DISPOSAL RESTRICTIONS TRI-PARTY AGREEMENT MILESTONES

Table 9-1 identifies the current, active Tri-Party Agreement milestones through 2028. Pending TPA change control actions are not included.

MILESTONE CONTROL NUMBER	DUE DATE	MILESTONE TITLE			
M-013-00N	12/31/03	Submit 1 RI/FS (RFI/CMS) Work Plans (For 200 NPL Area)			
M-013-00O	12/31/04	Submit 1 RI/FS (RFI/CMS) Work Plans (For 200 NPL Area)			
M-015-00	12/31/08	Complete The RI/FS (or RFI/CMS) Process For All Operable Units			
M-015-00C	12/31/08	Complete All 200 Area Non-Tank Farm OU Pre-Rod Site Investigations			
M-015-38A	3/31/03	Submit 200-Cw Gable Mountain Pond/B Pond And Ditch Cool Water F.S			
M-015-39A	9/30/03	Complete Chem. Sewer Group Field Work Thru Sample Collection & Analysis			
M-015-39B	5/31/04	Submit 200-CS-1 Chemical Sewer Group RI Report			
M-015-39C	11/30/05	Submit 200-CS-1 Chemical Sewer Group FS and Submit Proposed Plan			
M-015-40B	5/31/03	Submit 200-CW-5 U Pond/Z-Ditches Cooling Water Group R.I. Report			
M-015-40C	10/31/04	Submit 200-CW-5 Pond/Z Ditches Cooling Water Group FS and Submit			
M-015-41C	3/31/04	Submit 200-TW-1 OU And 200-Tw-2 OU Fs And Proposed Plan			
M-015-43B	6/30/04	Submit 200-PW-2 OU RI Report Including The Past Practice W. S.			
M-015-43C	12/31/05	Submit 200-PW-2 OU Feasibility Study And Proposed Plan/Permit Mod			
M-015-44A	12/31/05	Submit 200-MW-1 OU Remedial Investigation Report			
M-015-44B	12/31/06	Submit 200-MW-1 OU Feasibility Study And Proposed Plan			
M-015-46A	10/31/05	Submit 200 Area Chemical Laboratory Waste OU's R.I. Report			
M-015-46B	9/30/06	Submit 200 Area Chemical Laboratory Waste OUs Feasibility Study			
M-015-47	6/30/03	Submit Proposed Plan To EPA and/or Ecology To Conduct Remedial Actions			

Table 9-1. 1ri-Party Agreement Milestones Through 2028.					
MILESTONE CONTROL NUMBER	DUE DATE	MILESTONE TITLE			
M-016-00	9/30/24	Complete The Remedial Actions For All Operable Units			
M-016-00A	12/31/12	Complete All 100 Area Remedial Actions			
M-016-00B	9/30/18	Complete All 300 Area Remedial Actions			
M-016-03H	12/31/03	Complete Remediation of The Waste Sites In The 300-FF-1 O.U.			
M-016-03I	TBD	Complete Treatment of Drummed Waste From The 618-4 Burial Ground			
M-016-13B	10/29/04	Complete Remediation And Backfill of 16 Liquid Waste Sites			
M-016-26E	9/30/04	Complete Excavation And Removal of 100-B/C Process Effluent Pipelines			
M-016-26F	2/28/05	Complete Backfill of 100 B/C Process Effluent Pipeline Excavation			
M-016-27C	6/30/03	Complete 100-HR-3 Phase III, ISRM Barrier Emplacement			
M-016-45	12/31/06	Complete the Interim Remedial Action For The 100 B/C Area			
M-016-46	7/31/06	Initiate Remedial Actions for the Remaining 100 D Waste Sites			
M-016-47	12/31/11	Complete the Interim Remedial Actions For The 100 D Area			
M-016-48	7/31/05	Initiate Remedial Actions for the Remaining 100 F Wastes Sites			
M-016-49	12/31/08	Complete the Interim Remedial Actions For The 100 F Area			
M-016-50	7/31/07	Initiate Remedial Actions for the Remaining 100 H Wastes Sites			
M-016-51	12/31/10	Complete the Interim Remedial Actions For The 100 H Area			
M-016-52	7/31/09	Initiate Response Actions for the Remaining 100 K Wastes Sites			
M-016-53	12/31/12	Complete the Interim Response Actions For The 100 K Area			
M-016-54	7/31/08	Initiate Response Actions for the Remaining 100 N Wastes Sites			
M-016-55	12/31/12	Complete the Interim Response Actions For The 100 N Area			
M-016-56	12/31/08	Complete the Interim Remedial Actions For 100-IU-2 And 100-IU-6			
M-016-60	12/31/06	Complete Interim Remedial Actions For High Environmental PR Waste Sites			
M-016-61	12/31/08	Complete Interim Remedial Actions for Remaining High Envir Pr Waste Sites			
M-016-62	12/31/12	Complete Interim Remedial Actions for 300-FF-2 Waste Sites			
M-016-63	11/30/03	Submit Schedule & Tri-Party Agreement Milestones For 300-FF-2 Waste Sites			
M-016-64	9/30/10	Complete Interim Remedial Actions for the Following 300-FF-2 Waste Sites			
M-016-65	8/30/05	Submit A Schedule And Tri-Party Agreement M/S To Complete 300-FF-2 Int Remedial Act			
M-016-66	9/30/04	Initiate Intermediate Design And Authorization Safety Analysis			
M-016-67	3/31/07	Submit An Intermediate Design Report, Remediation Sched & TI/WP			
M-020-00	12/31/08	Submit Part B Permit Applications Or Closure Plans For All RCRA TSD Units			
M-020-00A	2/28/04	Submit Part B Permit Applications Or Closure/Post Closure Plans			
M-020-00B	12/31/08	Submit Closure/Post-Closure Plans For 216 & 241 Area			
M-020-29A	TBD	Submit Closure Plan for Sodium Storage & Reaction Facility			
M-020-33	12/31/05	Submit 216-A-10 and A-36B Crib Closure/Postclosure Plan			
M-020-39	11/30/05	Submit 216-S-10 Pond and Ditch Closure Plan to Ecology And EPA			
M-020-54	12/31/08	Submit 241-Cx Tank System Closure/Postclosure Plan			
M-020-56	6/30/03	Submit Canister Store Fac. Part B Dangerous Waste Permit App			
M-020-57	6/30/03	Submit ILAW Disposal Facility Certified Part B Permit Application			
M-023-25	9/30/04	Complete The Installation Of Liquid Observation Wells (LOWs)			

MILESTONE	DUE	MILESTONE	
CONTROL NUMBER	DATE	TITLE	
M-023-25C	3/31/03	Complete The Installation Of (LOWs) & Begin Liquid Observation	
M-023-25D	9/30/03	Complete The Installation Of (LOWs) & Begin Liquid Observation	
M-023-25E	9/30/03	Procure Necessary EQ To Support Additional Low Monitoring Systems	
M-023-25F	3/31/04	Complete The Installation of (LOWs) & Begin Weekly Liquid Observation Monitoring	
M-023-25G	9/30/04	Complete Installation of Lows & Begin Weekly Liquid Monitoring	
M-024-00O	12/31/03	Install RCRA Groundwater Monitor Wells At Rate Of Up To 50 In CY 03	
M-024-00P	12/31/04	Install RCRA Groundwater Wells at a Rate Up To 50 Per C.Y.	
M-024-00Q	12/31/05	Install RCRA Groundwater Wells at a Rate Up To 50 Per C.Y.	
M-024-00R	12/31/06	Install RCRA Groundwater Wells at a Rate Up To 50 Per C.Y.	
M-026-01M	4/30/03	Submit an Annual Hanford Land Disposal Restrictions Report	
M-026-01N	4/30/04	Submit an Annual Hanford Land Disposal Restrictions Report	
M-026-01O	4/30/05	Submit an Annual Hanford Land Disposal Restrictions Report	
M-026-01P	4/30/06	Submit an Annual Hanford Land Disposal Restrictions Report	
M-026-05J	8/31/03	Submit Development Status of Tritium Treatment Technology	
M-026-05L	8/31/05	Submit Development Status of Tritium Treatment Technology	
M-034-00A	7/31/07	Complete Removal of SNF Sludge, Debris & Water at DOE's K Basins	
M-034-08	12/31/02	Initiate Full Scale K East Basin Sludge Removal	
M-034-09-T01	1/31/05	Complete K Basins Rack & Canister Removal	
M-034-10	8/31/04	Complete Sludge Removal From K Basins	
M-034-12-T01	9/30/02	Complete Construction Of K East Basin Sludge And Water System	
M-034-18B	7/31/04	Complete Removal Of All K Basin SNF	
M-034-21-T01	10/31/05	Initiate Full Scale K West Basin Water Removal	
M-034-22	8/31/06	Complete K West Basin Water Removal	
M-034-23	9/30/04	Initiate Full Scale K East Basin Water Removal	
M-034-24	9/30/05	Complete K East Basin Water Removal	
M-034-25-T01	5/31/04	Complete Transfer of K E Basin Spent Nuclear Fuel To The K W Basin	
M-034-27-T01	5/31/03	Complete Removal of SNF Equivalent to 1,242 Metric Tons Heavy Metal from the K-West Basin	
M-034-28	12/31/03	Complete Removal of SNF Equivalent to 1,619 Metric Tons Heavy Metal from the K-West Basin	
M-035-00	TBD	Complete Data Management Enhancements	
M-035-09D	3/31/04	Conduct Biennial Assessments Of Information and Data Access Needs	
M-035-09E	3/31/06	Conduct Biennial Assessments Of Information and Data Access Needs	
M-042-00	TBD	Provide Additional Double-Shell Tank Capacity	
M-043-00	6/30/05	Complete Tank Farm Upgrades	
M-043-16	6/30/03	Start Construction Upgrades for Fifth Tank Farm	
M-045-00	9/30/24	Complete Closure of all Single Shell Tank Farms	
M-045-00B	9/30/06	Complete "Near Term" SST Waste Retrieval Activities	
M-045-00C	4/30/02	Complete Renegotiation of Second Phase SST Waste Retrieval Activities	
M-045-00D	6/30/11	Complete Renegotiation of the Remainder of the SST Waste Retrieval and Closure Program	
M-045-02	TBD	Submit Annual Updates to SST Retrieval Sequence Document	

MILESTONE CONTROL NUMBER	DUE DATE	MILESTONE TITLE
M-045-02L	9/30/03	Submit Annual Update of SST Retrieval Sequence Document
M-045-02M	9/30/04	Submit Annual Update of SST Retrieval Sequence Document
M-045-02N	9/30/05	Submit Annual Update of SST Retriéval Sequence Document
M-045-02O	9/30/06	Submit Annual Update of SST Retrieval Sequence Document
M-045-02P	9/30/07	Submit Annual Update of SST Retrieval Sequence Document
M-045-02Q	9/30/08	Submit Annual Update of SST Retrieval Sequence Document
M-045-02R	9/30/09	Submit Annual Update of SST Retrieval Sequence Document
M-045-02S	9/30/10	Submit Annual Update of SST Retrieval Sequence Document
M-045-02T	9/30/11	Submit Annual Update of SST Retrieval Sequence Document
M-045-02U	9/30/12	Submit Annual Update of SST Retrieval Sequence Document
M-045-02V	9/30/13	Submit Annual Update of SST Retrieval Sequence Document
M-045-02W	9/30/14	Submit Annual Update of SST Retrieval Sequence Document
M-045-02X	9/30/15	Submit Annual Update of SST Retrieval Sequence Document
M-045-02Y	9/30/16	Submit Annual Update of SST Retrieval Sequence Document
M-045-02Z	9/30/17	Submit Annual Update of SST Retrieval Sequence Document
M-045-03C	9/30/05	Complete Full Scale Saltcake Waste Retrieval Technology Demonstration
M-045-03D	5/31/03	Complete S-112 Saltcake Waste Retrieval Technology Demo Design
M-045-03E	9/30/04	Complete S-112 Saltcake Waste Retrieval Technology Demo Construction
M-045-03F	TBD	Complete Full Scale Sludge/Hard Heel, Confined Sluicing At Tank C-104
M-045-03G	6/30/04	Complete C-104 Sludge/Hard Heel, Confined Sluicing & Robotic Demo
M-045-03H	9/30/04	Complete C-104 Sludge/Hard Heel, Confined Sluicing And Robotic
M-045-03I	9/30/06	Complete C-104 Sludge/Hard Heel, Confined Sluicing & Robotic Demo
M-045-05	9/30/18	Retrieve Waste From all Remaining Single-Shell Tanks
M-045-05A	9/30/06	Complete Initial Waste Retrieval From Tank S-102
M-045-05B	3/31/04	Complete S-102 Initial Retrieval Project Design
M-045-05C	11/30/05	Complete S-102 Initial Waste Retrieval Project Construction
M-045-05D	3/31/03	Establish Completion Date for the Second Tank, Initial Waste Retrieval
M-045-05E	6/30/06	Complete Second Tank Initial Retrieval Project Design
M-045-05F	TBD	Complete Second Initial Waste Retrieval Project Construction
M-045-05-T05	9/30/07	Initiate Tank Retrieval from Five Additional Tanks
M-045-05-T06	9/30/08	Initiate Tank Retrieval from Five Additional SST
M-045-05-T07	9/30/09	Initiate Tank Retrieval from Seven Additional SST
M-045-05-T08	9/30/10	Initiate Tank Retrieval from Eight Additional SST
M-045-05-T09	9/30/11	Initiate Tank Retrieval from Ten Additional SST
M-045-05-T10	9/30/12	Initiate Tank Retrieval from Twelve Additional SST
M-045-05-T11	9/30/13	Initiate Tank Retrieval from 14 Additional SSTs
M-045-05-T12	9/30/14	Initiate Tank Retrieval from 17 Additional SSTs
M-045-05-T13	9/30/15	Initiate Tank Retrieval from 20 Additional SST
M-045-05-T14	9/30/16	Initiate Tank Retrieval from 20 Additional SSTs

MILESTONE CONTROL NUMBER	DUE DATE	MILESTONE TITLE		
M-045-05-T15	9/30/17	Initiate Tank Retrieval from 20 Additional SSTs		
M-045-05-T17	4/30/04	Submit Second Tank Initial Waste Retrieval Functions and Requirements Document		
M-045-06	9/30/24	Complete Closure of all Single-Shell Tank Farms		
M-045-06-T03	3/31/12	Initiate Closure Actions on OU Or Tank Farm Basis		
M-045-06-T04	3/31/14	Complete Closure Actions on One OU Or Tank Farm		
M-045-06-T06	6/30/04	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07A	6/30/06	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07B	6/30/08	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07C	6/30/10	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07D	6/30/12	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07E	6/30/14	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07F	6/30/16	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07G	6/30/18	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07H	6/30/20	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07I	6/30/22	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-06-T07J	6/30/24	Submit Tank Farm Closure/Post Closure Workplan Update		
M-045-11	9/30/03	Complete244-AR Vault Interim Stabilization		
M-045-55	2/28/04	Submit Result of WMAs S-SX, T, TX-TY, And B-BX-BY And Related Act		
M-045-55-T03	1/31/05	SST WMA Phase 1 RFI/CMS Work Plan Addenda For WMA T And WMA TX-TY		
M-045-56	TBD	Complete Implementation Of Agreed-To Interim Measures		
M-045-58	TBD	A Corrective Measures Study for Interim Corrective Measures		
M-045-59	TBD	Control Surface Water Infiltration Pathways as Needed		
M-045-60	TBD	DOE's RFI/CMS Work Plan for SST WMAs		
M-046-00J	9/30/03	DST Space Evaluation		
M-046-00K	9/30/04	Double-Shell Tank Evaluation		
M-046-00L	9/30/05	Double-Shell Tank Evaluation		
M-046-00M	9/30/06	Double-Shell Tank Evaluation		
M-046-011	2/28/03	Concurrence of Additional Tank Acquisition		
M-046-01J	11/30/03	Concurrence of Additional Tank Acquisition		
M-046-01K	11/30/04	Concurrence of Additional Tank Acquisition		
M-046-01L	11/30/05	Concurrence of Additional Tank Acquisition		
M-046-01M	11/30/06	Concurrence of Additional Tank Acquisition		
M-047-00	2/28/18	Complete all Work Nec. in Support of the Acq. & Operations of HLW TSD Facilities		
M-047-01	3/31/06	Complete Construction of the Transfer System from The 241-AP Tank		
M-047-02	3/31/07	Complete Startup and T/O Activities for Required Transfer System		
M-047-03A	2/28/07	Complete Startup and T/O Activities for Waste Retrieval & Mob Sys		
M-047-04	6/30/07	Complete Startup and T/O Activities for Required Transfer System		
M-047-05	5/31/04	Start Construction of Waste Retrieval and Mobil Sys LAW Waste Feed Tank		
M-047-05A	4/30/06	Complete Startup And Turnover Activities For Waste Retrieval & LAW		

MILESTONE CONTROL NUMBER	DUE DATE	MILESTONE TITLE	
M-047-06	6/30/10	Complete Negotiations of Add. Agreement Requirements For Treat Complex	
M-048-00	9/30/07	Complete Tank Integrity Assessment Activities For Hanford's DST	
M-048-02F	3/31/03	Submit To Ecology a Report Assessing Technology Development	
M-048-11	9/30/03	Submit Results of (4) DST's Not Previously Examined	
M-048-12	9/30/04	Submit Results of (4) DST's Not Previously Examined	
M-048-13	9/30/05	Submit Results of (4) DST's Not Previously Examined	
M-048-14	3/31/06	Written Integrity Report for the Double-Shell Tank System	
M-048-15	9/30/07	Re-Examination of Six (6) DST's By Ultrasonic Testing	
M-050-00	12/31/28	Complete Pretreatment Processing of Hanford Tank Waste	
M-051-00	12/31/28	Complete Vitrification of Hanford High Level Tank Waste	
M-061-00	12/31/28	Complete Pretreat & Immob of Hanford Low Activity Waste (Law)	
M-062-00	12/31/28	Complete Pretreatment Processing and Vitrification of Hanford HLW & LLW	
M-062-00A	2/28/18	Complete Pretreatment Processing and Vitrification of Hanford HLW	
M-062-01G	7/31/03	Submit Semi-Annual Project Compliance Report	
M-062-01H	1/31/04	Submit Semi-Annual Project Compliance Report	
M-062-01I	7/31/04	Submit Semi-Annual Project Compliance Report	
M-062-01J	1/31/05	Submit Semi-Annual Project Compliance Report	
M-062-01K	7/31/05	Submit Semi-Annual Project Compliance Report	
M-062-01L	1/31/06	Submit Semi-Annual Project Compliance Report	
M-062-01M	7/31/06	Submit Semi-Annual Project Compliance Report	
M-062-03	12/31/06	Submit DOE Petition For RCRA Delisting of Vitrified HLW	
M-062-07A	10/31/03	Initial Erection of Low-Activity Waste Vitrification Facility	
M-062-07B	11/30/05	Complete Assembly of Low Activity Waste Vitrification Melter #1	
M-062-08	7/31/05	Submittal of Hanford Tank Waste Phase II Treatment Alt Report	
M-062-09	12/31/07	Start (Hot) Commissioning - Phase I Treatment Complex	
M-062-10	1/31/11	Start Commercial Operations - Phase I Treatment Complex	
M-062-11	1/31/14	Submittal of Hanford Tank Waste Treatment Phase II Plan	
M-062-12	TBD	Issuance of DOE Authorization To Proceed - Phase II Treatment	
M-081-00	TBD	Complete FFTF Facility Transition & Initiate Surveillance	
M-081-00-T02	TBD	Complete Transfer of Irradiated Fuel to Dry Cask Storage	
M-081-00-T03	TBD	Complete Transfer of Irradiated Fuel to The PFP	
M-081-00-T04	TBD	Complete Transfer of Special Fuel to INEL For Consolidated Storage	
M-081-00-T05	TBD	Complete Auxiliary Systems Deactivation	
M-081-02-T01	TBD	Submit Final Sodium Disposition/Evaluation Report Decision Point	
M-081-03	TBD	Develop FFTF End Point Criteria Document	
M-081-04	TBD	Complete FFTF Sodium Drain	
M-081-04-T01	TBD	Complete Reactor and Heat Transport System Sodium Drain	
M-081-04-T02	TBD	Complete interim Decay Storage Vessel and Sodium Drain	
		L	

MILESTONE	MILECTONE			
CONTROL NUMBER	DUE DATE	MILESTONE TITLE		
M-081-06	TBD	Complete PCB Transformer Disposal		
M-083-00A	9/30/16	Complete PFP Facility Transition & Selected Disposition Activities		
M-083-12-T01	12/31/03	Submit PFP Legacy Pu Holdup Removal Plan To Ecology		
M-083-13	4/30/04	Complete Repackaging of PFP Mixed Waste Residues & Ship To CWC		
M-083-14	9/30/06	Complete 100% of the Legacy Pu Holdup Removal		
M-083-20	9/30/03	Submit Facility Transition End Point Criteria Document		
M-083-22	9/30/08	Submit To Ecology an Engineering Evaluation/Cost Analysis		
M-083-23	3/31/09	Complete Negotiations as Needed for Revising PFP Milestones		
M-083-24	6/30/12	Submit S&M Plan Pursuant to Agreement Section 8.5.4		
M-083-30	7/31/03	Submit 241-Z Waste TSD and Glovebox HA-20mb Closure Plan		
M-083-31	6/30/05	Discontinue Waste Discharges From The 241-Z Tanks to Tank Farms		
M-083-32	9/30/11	Complete Closure of the PFP 241-Z TSD Unit		
M-083-40	9/30/06	Complete Transition & Dismantlement of The 232-Z Building Incinerator		
M-083-41	9/30/10	Complete Transition and Dismantlement of the 216-Z-9 Crib Complex		
M-083-42	9/30/11	Complete Transition & Dismantlement of 241-Z Waste Treatment Facility		
M-083-43	9/30/13	Complete Transition of 242-Z Waste Treat Facility & 236-Z PRF		
M-083-44	9/30/15	Complete Transition of 234-Z&Za, 243-Z, 291-Z & 291-Z-1 Facilities		
M-089-00	10/31/05	Complete Closure of Non-Permitted Mixed Waste Units In 324 Building REC B&D Cells		
M-090-00	TBD	Complete Acquisition or Mod of Facilities For IHLW & ILAW Storage & Disposal		
M-090-08	2/28/05	Complete ILAW Disposal Facility Construction		
M-090-09-T01	5/30/03	Complete ILAW Disposal Facility Detailed Design		
M-090-10	8/31/08	Initiate Placement of ILAW Waste in ILAW Disposal Facility		
M-090-11	6/30/09	Complete Canister Storage Facility Construction		
M-091-00	TBD	Complete Acquisition of Facilities for Disposal of TRU/TRUM, LLMW & Gtc3		
M-091-01	TBD	Complete Acquisition of New Facilities For Post 1970 TRU/TRUM		
M-091-05-T01	12/31/02	Complete & Submit TRU/TRUM Retrieval & Proc Facility Design Criteria		
M-091-06-T01	9/30/03	Award Necessary Privatized Contracts for RH & Large Size TRU/TRUM		
M-091-07	9/30/04	Complete Project W-113 for Post 1970 TRU/TRUM Retrieval		
M-091-08-T01	6/30/05	Complete Construction & Initiate Hot Operation of RH & Large Size TRU/TRUM		
M-091-12	12/31/05	Complete Thermal Treatment & Disposal of an Additional 360 M3 of CH LLAW		
M-091-12A	12/31/04	Complete Thermal Treatment & Disposal of at Least 240 M3 CH LLMW		
M-091-14-T01	10/31/03	Award Commercial Contracts for Treatment of RH & Large Size LLMW		
M-091-15	6/30/08	Complete Acquisition of Facilities & Init Treat of RH & CH LLMW		
M-091-20	12/31/02	T Plant is ready to receive 1st Canister of SNF Floor and Pit Sludge		
M-091-21-T01	11/29/03	Complete Physical Activities at T Plant Nececcary to Store Floor & Pit Sludge		
M-091-22	2/29/04	T Plant Is Ready To Receive Canisters & Fuel Wash Sludge From K Basins		
M-092-00	TBD	Complete Acquisition of Facility for Store, Treat/Process of Cs/Sr, Na & SCW		
M-092-01	12/31/09	Complete Commercial Disposition &/Or Acquisition of Facilities For Sitewide Consol		
M-092-05	6/30/03	Include Hanford. Cs/Sr "Treatment &/Or Repack Parameters" In DOE RFP		

MILESTONE CONTROL NUMBER	DUE DATE	MILESTONE TITLE
M-092-06-T02	9/30/06	Complete Disposal of 1020 Tons of UU and 5 Tons Of Source Material
M-092-09	TBD	Complete Acquisition of Facilities For Store, Treat/Proc of Sodium
M-092-10	TBD	Submit Hanford Site Sodium PMP
M-092-11-T01	9/30/04	Complete Disposition Options for all Hanford Non-Rad Sodium
M-092-12	9/30/06	Complete Acquisition of Storage Facilities for Disposal Of SCW
M-092-16	9/30/06	Complete Removal & Transfer & Initiate Storage of Phase-III 300 Area SCW
M-093-00	TBD	Complete Final Disposition of all 100 Area Surplus Production Reactor Buildings
M-093-11	9/30/04	Complete 105-F Interim Safe Storage
M-093-17	12/31/04	Complete 105-D Reactor Interim Safe Storage
M-093-18	12/31/05	Complete 105-H Reactor Interim Safe Storage
M-093-19	9/30/09	Submit 105/109-N Reactor Interim Safe Storage Design Report
M-093-20	9/30/12	Complete 105-N Reactor Interim Safe Storage
M-093-22	9/30/11	Complete 105-KE And 105-KW Reactor Interim Safe Storage
M-093-23	7/31/06	Submit Engineering Evaluation/Cost Analysis (EE/CA) For KE/KW Reactors
M-093-24	9/30/06	Submit EE/CA or N Reactor ISS
M-093-25	9/30/05	Submit An Engineering Evaluation Of The Final Surplus Reactor Disposition
M-094-00	9/30/18	Complete Disposition of 300 Area Surplus Facilities
M-094-01	11/30/03	Submit A Schedule and Tri-Party Agreement Milestones For Facility Disposition
M-094-03	9/30/10	Complete Disposition of Surplus Facilities:
M-094-04	8/30/05	Submit A Schedule and Tri-Party Agreement Milestones

CDD	conceptual design document	PMP	project management plan
CH	contact handled	RCRA	Resource Conservation and Recovery
DOE	U. S. Department of Energy		Act of 1976
DST	double-shell tank	REC	Radiochemical Engineering Cell
EIS	Environmental Impact Statement	RFI	RCRA facility investigation
ERDF	Environmental Restoration Disposal Facility	RH	remote handled
F&R	Functions and requirements	RI/FS	remedial investigation/feasibility study
FDC	Functional Design Criteria	ROD	Record of Decision
HL	high level	SCW	special-case waste
HLW	high-level waste	SNF	spent nuclear fuel
IHLW	immobilized high-level waste	SST	single-shell tank
ILAW	immobilized low-activity waste	TBD	to be determined
LAW	low-activity waste	TRUM	transuranic mixed
LLMW	low-level mixed waste	TSD	treatment, storage, and/or disposal
LLW	low-level waste	TWRS	Tank Waste Remediation System
MW	mixed waste	WIRD	waste information requirements
NPL	National Priorities List		document
OU	operable unit	WMA	Waste Management Area
PFP	Plutonium Finishing Plant		-

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10.0 REFERENCES

- DOE/EA-1189, 1998, Non-Thermal Treatment of Hanford Site Low-Level Mixed Waste, U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/EIS-0189, 1996, Final Environmental Impact Statement for the Tank Waste Remediation System, U.S. Department of Energy, Washington, D.C.
- DOE/EIS-0200F, 1997, Final Waste Management Programmatic Environmental Impact State for Managing Treatment Storage, and Disposal of Radioactive and Hazardous Wastes, U.S. Department of Energy, Washington D.C.
- DOE/EIS-0222-F, Final Hanford Comprehensive Land-Use Plan Environmental Impact Statement, U.S. Department of Energy, Washington, D.C., available at http://www.hanford.gov/eis/hraeis/hraeis.htm.
- DOE/RL-91-16, Hanford Facility Dangerous Waste Permit Application, Waste Receiving and Processing Facility, U.S. Department of Energy, Richland Operations Office, Richland, Washington, latest revision.
- DOE/RL-91-27, Hanford Facility Dangerous Waste Permit Application, 222-S Laboratory Complex, U.S. Department of Energy, Richland Operations Office, Richland, Washington, latest revision.
- DOE/RL-95-36, Hanford Facility Dangerous Waste Permit Application, T Plant Complex, U.S. Department of Energy, Richland Operations Office, Richland, Washington, latest revision.
- DOE/RL-99-24, Surveillance and Maintenance Plan for the 221-B Facility (B Plant), U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE/WIPP-89-004, TRUPACT-II Content Codes (TRUCON), Rev. 12, U.S. Department of Energy, Carlsbad Field Office, Carlsbad, New Mexico, available at http://www.wipp.carlsbad.nm.us/library/caolib.htm#containers.
- DOE/WIPP-90-045, Remote-Handled Transuranic Content Codes (TRUCON), Rev. 1, U.S. Department of Energy, Carlsbad Field Office, Carlsbad, New Mexico, available at http://www.wipp.carlsbad.nm.us/library/caolib.htm#containers.
- DOE/WIPP-93-1001, TRUPACT II Operating and Maintenance Instructions, Rev. 4, U.S. Department of Energy, Carlsbad Field Office, Carlsbad New Mexico, available at http://www.wipp.carlsbad.nm.us/library/caolib.htm#containers
- DOE/WIPP-069, Waste Acceptance Criteria for the Waste Isolation Pilot Plant, Rev. 7, U.S. Department of Energy, Carlsbad Field Office, Carlsbad, New Mexico, available at http://www.wipp.carlsbad.nm.us/library/wac/chwac.pdf.
- Ecology, 2000, Washington State Department of Ecology, U.S. Environmental Protection Agency, U.S. Department of Energy, Richland Operations Office, U.S. Department of Energy, Office of River Protection, Framework Agreement for Management of Polychlorinated Biphenyls (PCBs) in Hanford Tank Waste, dated August 31, 2000.

- Ecology, EPA, and DOE, 2001, Hanford Federal Facility Agreement and Consent Order, as amended, Washington State Department of Ecology, U.S. Environmental Protection Agency, U.S. Department of Energy, Olympia, Washington, updated periodically.
- FH, 2001, Solid Waste Integrated Forecast Technical (SWIFT) System Report 2001.0: FY 2001 to FY 2046, Fluor Hanford, Richland, Washington, available at http://www.hanford.gov/docs/ep0918/index.htm.
- HNF-4293-1, 1999, Project Management Plan for Low-Level Mixed Waste and Greater-Than Category Waste per Tri-Party Agreement M-091-10, prepared by Waste Management Federal Services of Hanford, Inc., for Fluor Hanford, Richland, Washington.
- HNF-6287-1, 2000, Project Management Plan for Transuranic and Transuranic Mixed Waste per Tri-Party Agreement M-091-03, prepared by Waste Management Federal Services of Hanford, Inc., for Fluor Hanford, Richland, Washington.
- HNF-EP-0063, Hanford Site Waste Acceptance Criteria, Revision 6, draft, Fluor Hanford, Richland, Washington, available at (http://www.hanford.gov/wastemgt/wac/whatsnew.htm
- HNF-SD-WM-ER-730, Long-Length Contaminated Equipment Disposal Process path Document, Fluor Hanford, Richland, Washington.
- INEEL, STCG Need and Technical Response, Idaho National Environmental Engineering Laboratory, available at http://MWFAdata.inel.gov/needcomp.asp?id=126.
- NRC, 1999a, TRUPACT-II Certificate of Compliance (C of C), NRC-Docket-71-9218, Rev. 11, U.S. Nuclear Regulatory Commission, Washington, D.C., available at http://www.wipp.carlsbad.nm.us/library/caolib.htm#containers.
- NRC, 1999b, TRUPACT-II Safety Analysis Report, NRC-Docket-71-9218, Rev. 18, U.S. Nuclear Regulatory Commission, Washington, D.C., available at http://www.wipp.carlsbad.nm.us/library/caolib.htm#containers.
- NRC, 1999c, Safety Analysis Report for the RH-72B Waste Shipping Package, NRC-Docket-71-9212, Rev. 1, U.S. Nuclear Regulatory Commission, Washington, D.C., available at http://www.wipp.carlsbad.nm.us/library/caolib.htm#containers.
- NRC, 2000, RH-TRU Certificate of Compliance, NRC-Docket-71-9212, Rev. 0, U.S. Nuclear Regulatory Commission, Washington, D.C. available at http://www.wipp.carlsbad.nm.us/library/caolib.htm#containers.
- ORP, 2000, Response to Requirement for Report to Congress under Floyd D. Spence National Defense Authorization Act for FY 2001, U.S. Department of Energy, Office of River Protection, Richland, Washington, available at (http://www.hanford.gov/orp/documents/report to congress.PDF)
- ORP, 2001, Bechtel National, Inc., Design, Construction, and Commissioning of the Hanford Tank Waste Treatment and Immobilization Plant, Contract No. DE-AC27-01RV14136, U.S. Department of Energy, Office of River Protection, Richland, Washington, available at (http://www.hanford.gov/orp/contracts/de-ac27-01rv14136/index.html).

DOE/RL-2003-20, Rev. 0 Volume 2, 04/2003

WHC-MR-0039, Strategy for Handling and Disposing of Purgewater at the Hanford Site, Washington, Westinghouse Hanford Company, Richland, Washington, available at (http://www.rl.gov/docs/wa7890008967/att05/Attachment_05.PDF).

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